ORDER NO. VSD9502M642

Service Manual

- Sec. 1 *Operating Instructions*
- Sec. 2 *Disassembly Procedures*
- Sec. 3 *Mechanism*
- Sec. 4 *Block Diagrams*
- Sec. 5 *Electrical Adjustments*
- Sec. 6 *Schematic Diagrams*
- Sec. 7 *Circuit Board Diagrams*
- Sec. 8 *Exploded Views & Replacement Parts List*

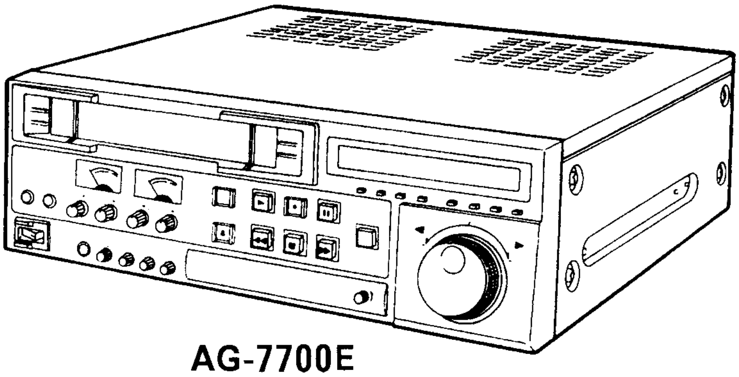
S VHS 625 VHS PAL Hi-Fi

Editing Video Cassette Recorder

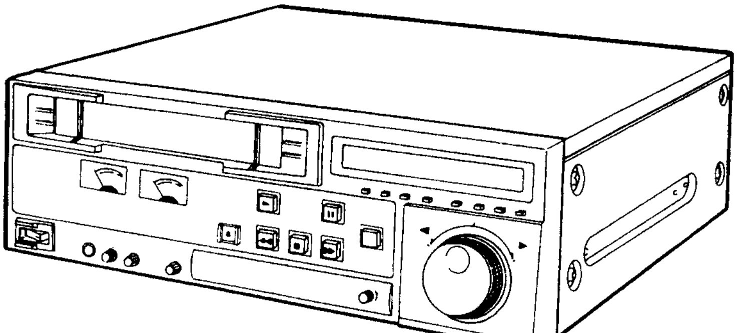
AG-7700E

Editing Video Cassette Player

AG-7600E



AG-7700E



AG-7600E

Panasonic

© 1995 Matsushita Electric Industrial Co., Ltd. All rights reserved.
Unauthorized copying and distribution is a violation of law.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advice non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service manual by anyone else could result in serious injury or death.

SPECIFICATIONS

ITEM	SPECIFICATION	
Power	Source	AC 220V - 240V±10%, 50-60Hz
	Consumption	AG-7700E: 67W, AG-7600E: 53W
Television Format	CCIR Standard (625 lines, 50fields) PAL colour signal	
Tape Speed	23.39mm/s	
Tape	S-VHS, VHS	
FF/REW Time	Approx. 2min. (with 180min. tape)	
Operating Condition	Temperature	5℃ - 40℃
	Humidity	35% - 80%
Dimensions	424 (W) × 131.5 (H) × 415 (D) mm	
Weight	11.5kg (25.3 lbs)	
Video	Heads	2 roatary heads, helical scaning system 49μ m(NOR) × 2, 49μ m(SS) × 2
	Luminance	FM azimuth recording
	Color signal	Converted subcarrier phase shift recording
	Input	LINE IN (BNC) (AG-7700E only); 1.0Vp-p, 75Ω unbalanced S-VIDEO IN (4P) (AG-7700E only); Y: 1.0Vp-p, 75Ω unbalanced C: 0.3Vp-p (burst), 75Ω unbalanced SYNC IN (BNC); 1.0Vp-p, 75Ω unbalanced
	Output	LINE (BNC × 2); 1.0Vp-p, 75Ω unbalanced S-VIDEO (4P × 2); Y: 1.0Vp-p, 75Ω unbalanced C: 0.3Vp-p (burst), 75Ω unbalanced VIDEO MONITOR OUT (BNC); 1.0Vp-p, 75Ω unbalanced
	Signal-to-Noise Ratio	VHS; 45dB (color, SC on) S-VHS; 46dB (color, SC on)
	Horizontal Resolution	S-VHS; 400 lines VHS; 250 lines
Time Code	Input level	1.0Vp-p, 10KΩ unbalanced (AG-7700E)
	Output level	2.4Vp-p, low impedance, unbalanced

ITEM	SPECIFICATION	
Audio	Heads	Normal Audio Control; 1 stationary head Hi-Fi Audio; 2 rotary heads (36μ m× 2)
	Tracks	Normal audio; 2 tracks (stereo) Hi-Fi Audio; 2 channels (stereo)
	Input	LINE OUT Hi-Fi (XLR) (AG-7700E only); +4/0/−6dBs, 50Ω balanced LINE OUT NORM/Hi-Fi (XLR) (AG-7700E only); +4/0/−6dBs, 50Ω balanced MIC IN (¼" × 2) (AG-7700E only); −50dBv, 4.7KΩ unbalanced
	Output	LINE OUT Hi-Fi (XLR); +4/0/−6dBs, 50Ω balanced LINE OUT NORM/Hi-Fi (XLR); +4/0/−6dBs, 50Ω balanced HEADPHONES (¼" PHONE) −60dBv to −20dBv, 8Ω unbalanced AUDIO MONITOR OUT (PHONO); 0dBv, 600Ω unbalanced
	Frequency Response	Normal; 50Hz to 12kHz Hi-Fi; 20Hz to 20kHz
	Dynamic Range	Hi-Fi; 90 dB
	S/N Ratio	48dB (Normal audio, NR on)
Standard Accessories	Power Cable··········VJA0738 VJA0746	
Optional Accessories	S-VIDEO cable (4P) ··········AG-C71A(5m) AG-C70A(3m) Editing controller ··········AG-A800 AG-A770 AG-A750 AG-A350 Remote search controller ··········NV-A505 Remote Controller ··········AG-A600 Rack-mounting adaptor ··········AG-M730 34-pin Interface Adaptor ··········AG-IA834	

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

INTRODUCTION

This Service Manual contains all the technical information which will allow service personnel to understand and service the Panasonic S-VHS Hi-Fi Video Cassette Recorder model AG-7700E and Player AG-7600E.

These models are video cassette player for editing applications which was developed for appllications in industry, educational establishments, studios and CATV transmissions.

By the use of S-VHS system, a sharp picture quality with high resolution is obtained, and advanced editing by easy operation is realized by the introduction of highly dependable mechanisms.

Panasonic

CONTENTS

SPECIFICATIONS ··Cover
SAFETY PRECAUTIONS ··2
SERVICE INFORMATION ··3
SECTION 1 OPERATING INSTRUCTIONS ···1-1
SECTION 2 DISASSEMBLY PROCEDURES ··2-1
SECTION 3 MECHANISM ··3-1
SECTION 4 ELECTRICAL ADJUSTMENTS ···4-1
SECTION 5 BLOCK DIAGRAMS ···BLK-1
SECTION 6 SCHEMATIC DIAGRAMS ···SCM-1
SECTION 7 CIRCUIT BOARD DIAGRAMS ···CBA-1
SECTION 8 EXPLODED VIEWS & REPLACEMENT PARTS LISTS ············PRT-1

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing observe the original lead dress. If a short circuit is found, replac all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protectiv devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs onthe plug.
2. Measur the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwhead connectors, contrl shafts, etc. When the exposed metallic part has a return path to the chassis, the reading shoulb be between 1MΩ and 5.2MΩ .
   When the exposed metal dose not have a return path to the chassis, the reading must be ∞ .

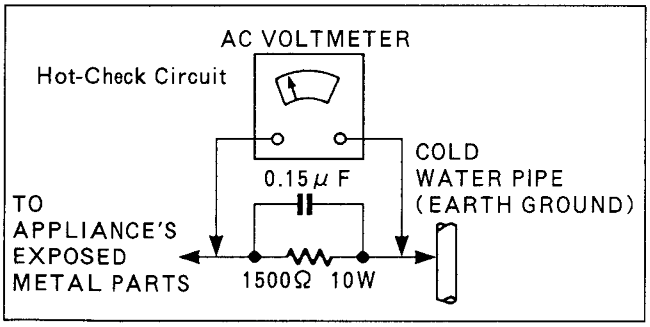


Figure 1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
2. Connect a 1.5KΩ , 10W resistor, inparallel with 0.15μ F capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measur the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possiblity of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE(ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package untilimmediately before you are ready to install it. (most replacement ES devices are packaged withleads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective materialfrom the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all otner asfety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devoces. (Otherwise harmless mothe such as the brushing together of your clothes fabric or the lifting of your foor from a carpeted floor can generate static electricity sufficient to damage an ES device).

SERVICE INFORMATION

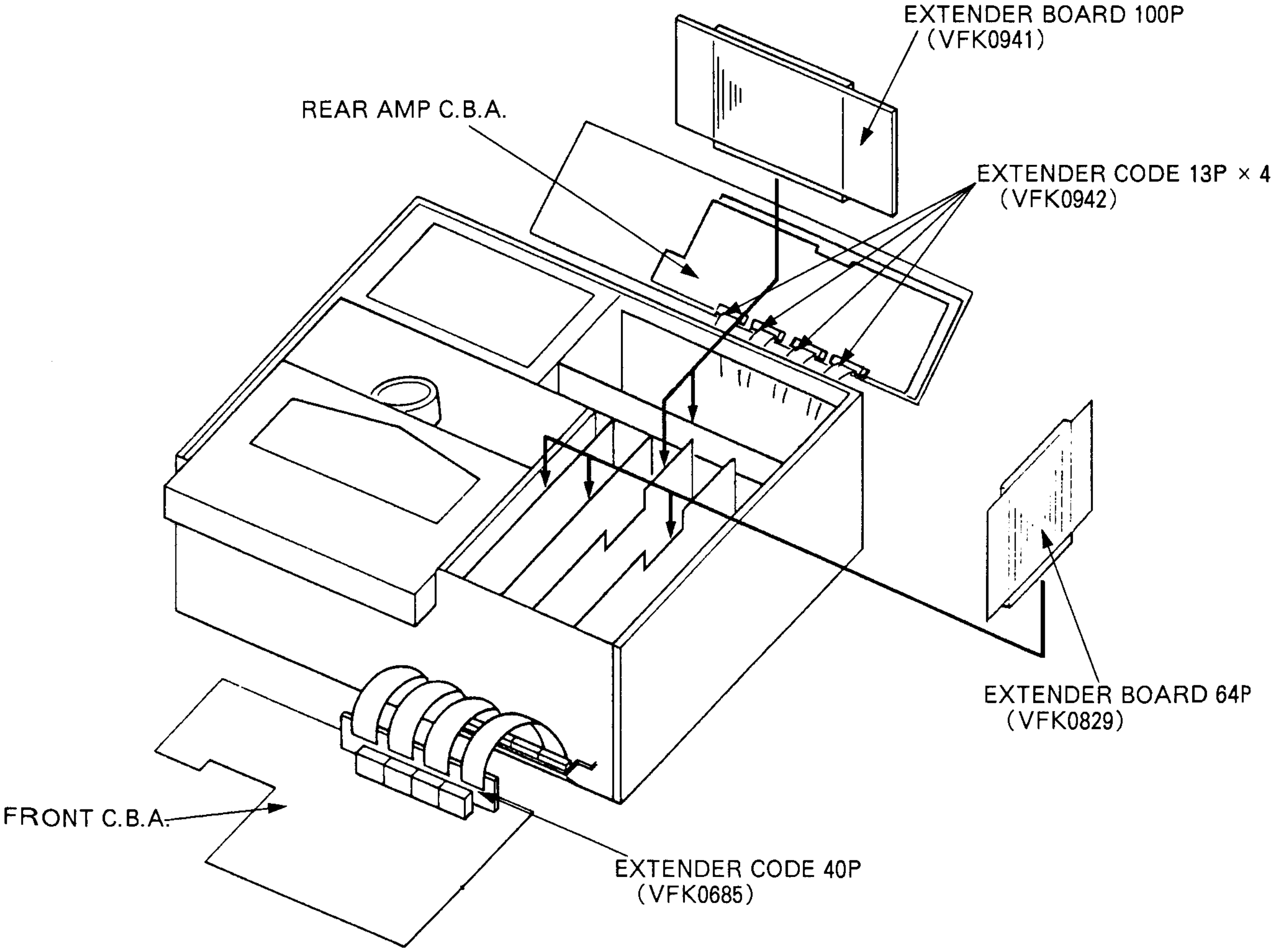
1 EXTENDERS

1. **EXTENDER BOARD 100P (VFK0941) NEW**
   FOR INTERFACE, TBC (1), TBC (2) and VIDEO I/O P.C.BOARDs

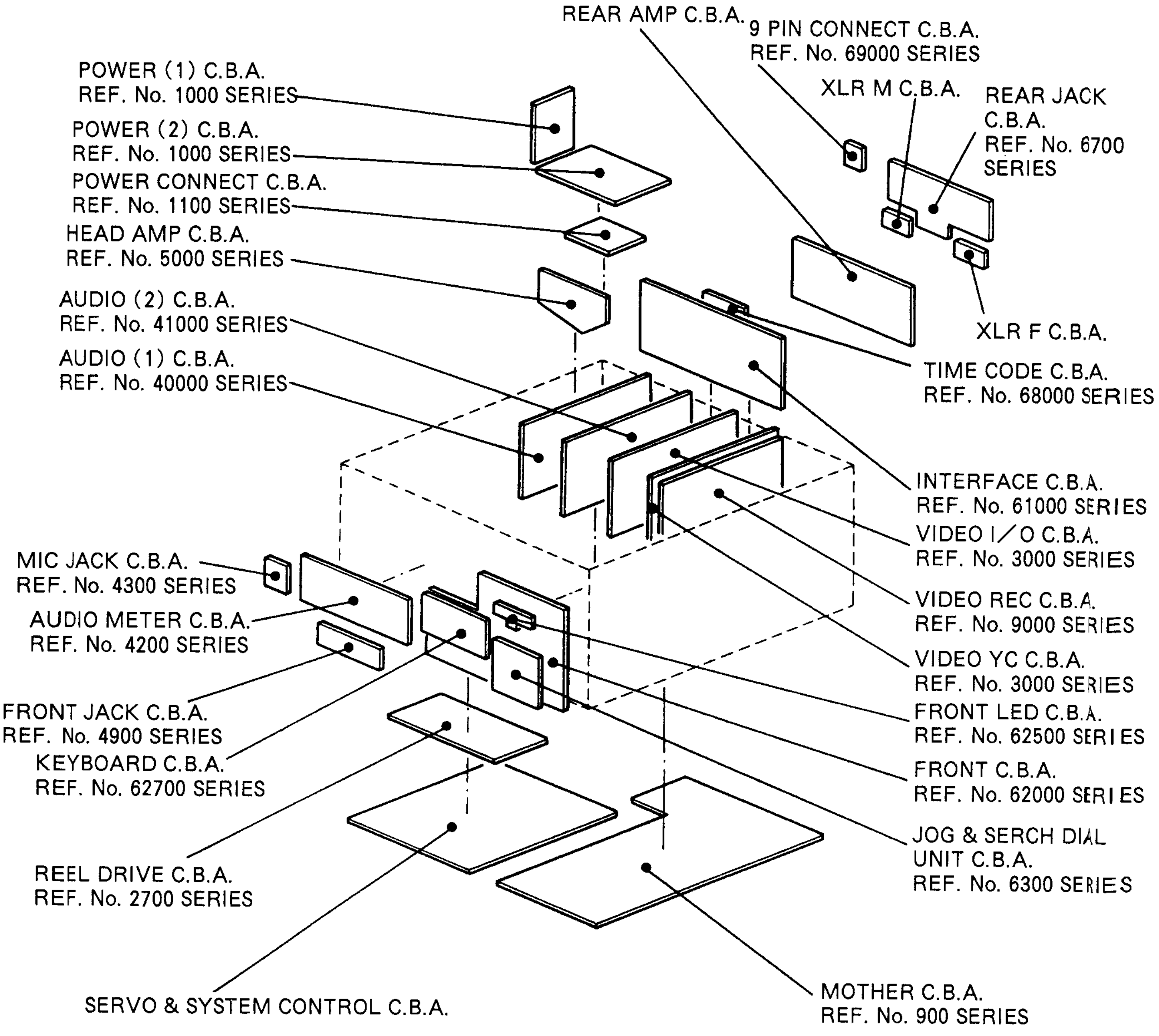
2. **EXTENDER CODE 13P (VFK0942) × 4 NEW**
   FOR REAR AMP (JACK) P.C.BOARD

3. **EXTENDER CODE 40P (VFK0685) SAME AS AG-7350 etc.**
   FOR FRONT P.C.BOARD

4. **EXTENDER BOARD 64P (VFK0829) SAME AS AG-6730 etc.**
   FOR VIDEO YC, AUDIO (1), AUDIO (2) P.C.BOARDs


EXTENDER BOARD 100P
(VFK0941)
REAR AMP C.B.A.
EXTENDER CODE 13P × 4
(VFK0942)
EXTENDER BOARD 64P
(VFK0829)
FRONT C.B.A.
EXTENDER CODE 40P
(VFK0685)

2 CIRCUIT BOARD LAYOUT


REAR AMP C.B.A.
9 PIN CONNECT C.B.A.
REF. No. 69000 SERIES
POWER (1) C.B.A.
REF. No. 1000 SERIES
XLR M C.B.A.
REAR JACK C.B.A.
REF. No. 6700 SERIES
POWER (2) C.B.A.
REF. No. 1000 SERIES
POWER CONNECT C.B.A.
REF. No. 1100 SERIES
HEAD AMP C.B.A.
REF. No. 5000 SERIES
AUDIO (2) C.B.A.
REF. No. 41000 SERIES
XLR F C.B.A.
AUDIO (1) C.B.A.
REF. No. 40000 SERIES
TIME CODE C.B.A.
REF. No. 68000 SERIES
INTERFACE C.B.A.
REF. No. 61000 SERIES
VIDEO I/O C.B.A.
REF. No. 3000 SERIES
MIC JACK C.B.A.
REF. No. 4300 SERIES
AUDIO METER C.B.A.
REF. No. 4200 SERIES
VIDEO REC C.B.A.
REF. No. 9000 SERIES
VIDEO YC C.B.A.
REF. No. 3000 SERIES
FRONT JACK C.B.A.
REF. No. 4900 SERIES
FRONT LED C.B.A.
REF. No. 62500 SERIES
KEYBOARD C.B.A.
REF. No. 62700 SERIES
FRONT C.B.A.
REF. No. 62000 SERIES
JOG & SERCH DIAL UNIT C.B.A.
REF. No. 6300 SERIES
REEL DRIVE C.B.A.
REF. No. 2700 SERIES
SERVO & SYSTEM CONTROL C.B.A.
MOTHER C.B.A.
REF. No. 900 SERIES

SERVO & SYSTEM CONTROL C.B.A.

SUB POWER SECTION: REF. No. 1500 SERIES
CYL SERVO SECTION: REF. No. 2000 SERIES
CAPSTAN SERVO (1) SECTION: REF. No. 2200 SERIES
CAPSTAN SERVO (2) SECTION: REF. No. 2200 SERIES
CTL AMP SECTION: REF. No. 2300 SERIES
WIDE SECTION: REF. No. 2400 SERIES
REEL SERVO SECTION: REF. No. 2500 SERIES
MOTER DRIVE (1) SECTION: REF. No. 2700 SERIES
MOTER DRIVE (2) SECTION: REF. No. 2700 SERIES

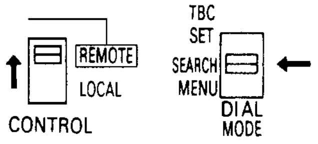
REAR AMP C.B.A.

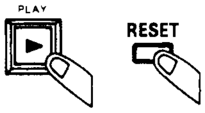
REAR AMP SECTION: REF. No. 4000 SERIES
REAR AMP SECTION: REF. No. 6600 SERIES

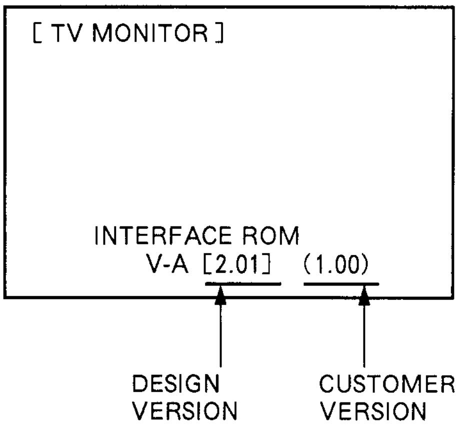
3 ROM VERSION DISPLAY

The ROM Version is displayed while the PLAY and RESET buttons are kept depressed as follows;

1. Eject a cassette tape.
2. Set the CONTROL switch to REMOTE.
3. Set the DIAL MODE switch to SEARCH.
4. Push the PLAY button together with RESET button.

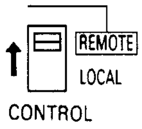

REMOTE
LOCAL
CONTROL
TBC
SET
SEARCH
MENU
DIAL
MODE




[TV MONITOR]
INTERFACE ROM
V-A [2.01] (1.00)
DESIGN VERSION
CUSTOMER VERSION

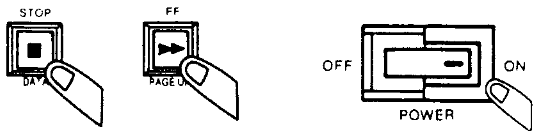
4 HOUR METER RESET

1. Turn off the Power.
2. Connect a jumper wire between TP1 and TP2 on the INTERFACE C.B.A.
3. Set the CONTROL switch to REMOTE.


REMOTE
LOCAL
CONTROL

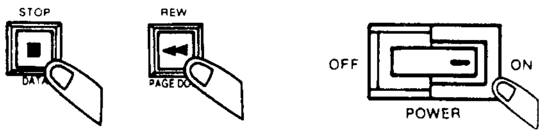
<< DRUM ON TIME >>

Turn on the Power while the STOP and FF buttons are depressed.

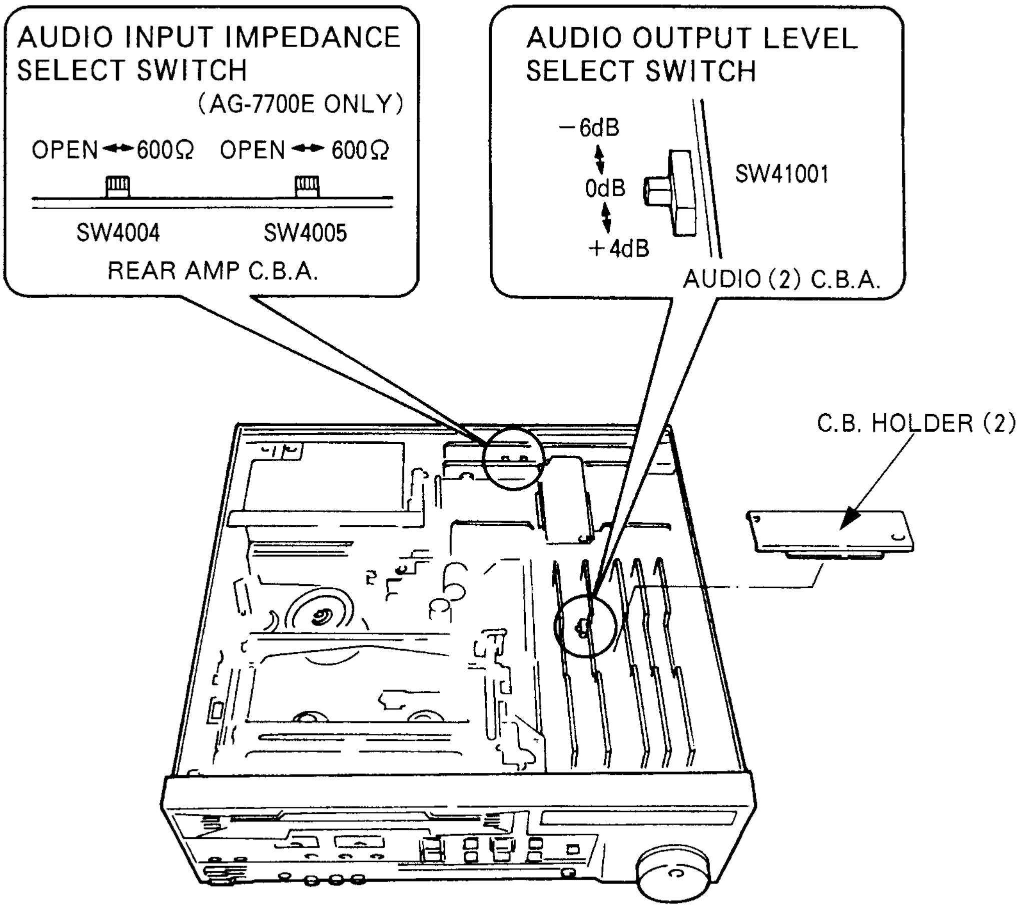

STOP
FF
OFF
ON
POWER

<< CAPSTAN ON TIME >>

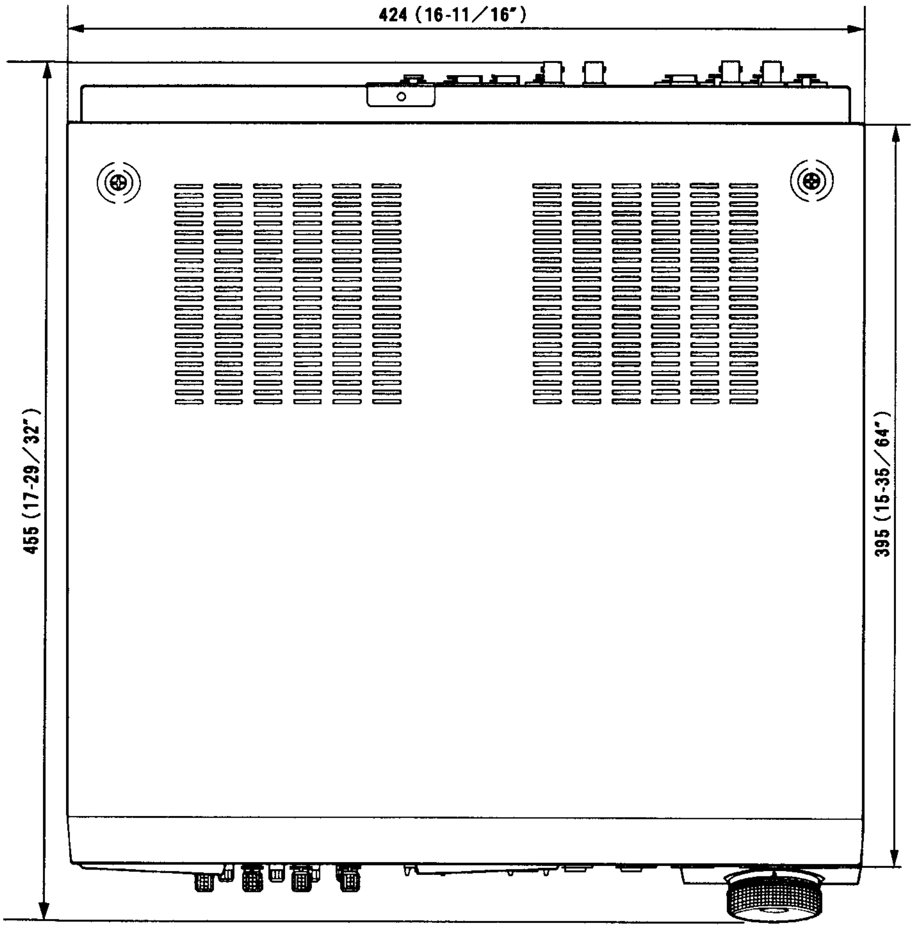
Turn on the Power while the STOP and REW buttons are depressed.

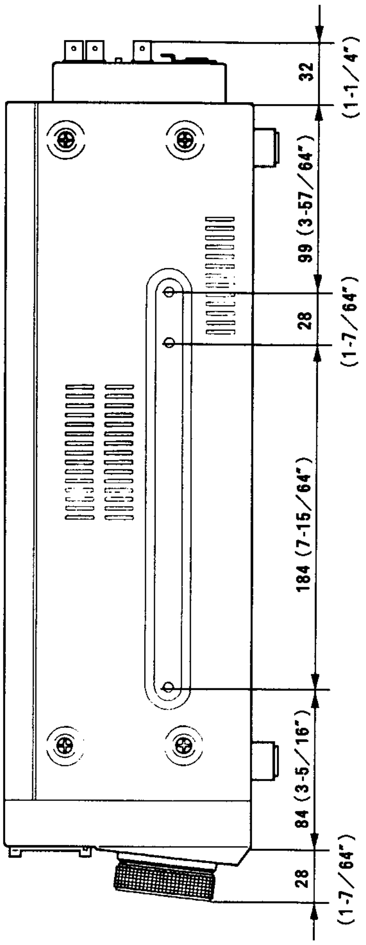

STOP
REW
OFF
ON
POWER

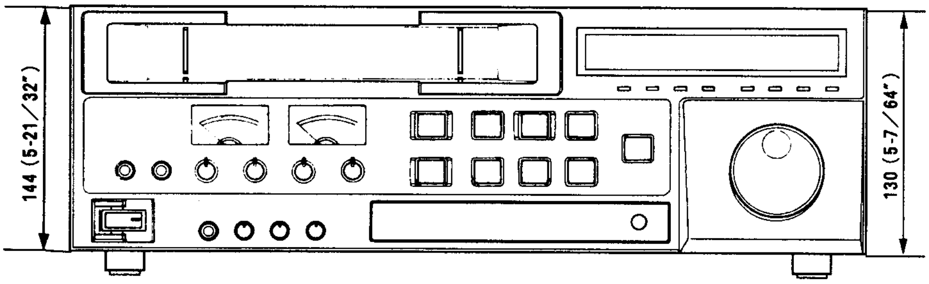
5 INTERNAL SWITCH


AUDIO INPUT IMPEDANCE SELECT SWITCH
(AG-7700E ONLY)
OPEN ↔ 600Ω
OPEN ↔ 600Ω
SW4004
SW4005
REAR AMP C.B.A.
AUDIO OUTPUT LEVEL SELECT SWITCH
−6dB
0dB
+4dB
SW41001
AUDIO (2) C.B.A.
C.B. HOLDER (2)

6 DIMENSIONS


424 (16-11/16")
455 (17-29/32")
395 (15-35/64")


32 (1-1/4")
99 (3-57/64")
28 (1-7/64")
184 (7-15/64")
84 (3-5/16")
28 (1-7/64")


144 (5-21/32")
130 (5-7/64")

MEMO

SECTION 1

OPERATING INSTRUCTIONS

CONTENTS

Control and Their Functions ························· **1-2**
- Front Panel Parts ························· 1-2
- Counter Display Parts ························· 1-3
- Rear Panel Parts ························· 1-4

Basic Operation ························· **1-5**
- Switching on the Power ························· 1-5
- Installing a Cassette ························· 1-5
- Recording (AG-7700 only) ························· 1-6
- Playback ························· 1-7
- FF, REW, stop and pause/still ························· 1-8
- Search operations ························· 1-8
- AUTO STOP function ························· 1-9

Switch Settings ························· **1-9**
- Setting the audio switches ························· 1-9
- Setting the video switches ························· 1-10
- Other switch settings ························· 1-10

Editing Operations ························· **1-11**
- Before proceeding with editing (AG-7700 only) ························· 1-11
- Selecting the editing mode (AG-7700 only) ························· 1-11
- Executing manual editing (AG-7700 only) ························· 1-12
- AUTO CUT OUT editing (simple automatic editing)(AG-7700 only) ························· 1-12
- Split editing (AG-7700 only) ························· 1-13
- Precautions for editing (AG-7700 only) ························· 1-14

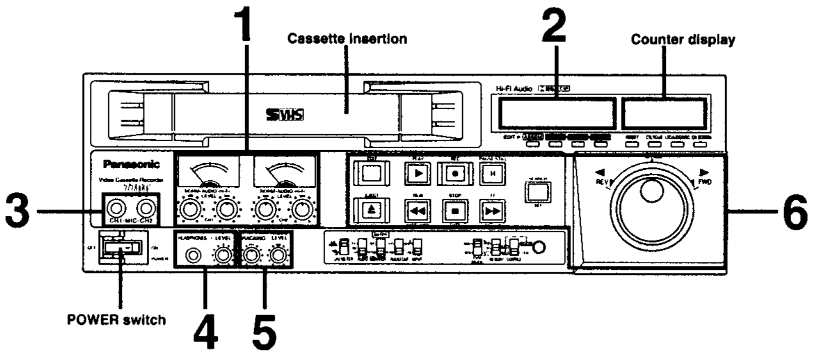
Dial Menu Functions ························· **1-14**
- Using the dial menu functions ························· 1-14
- Set-up menu screen ························· 1-15

Time Code ························· **1-24**
- Time code/user's bit ························· 1-24
- Setting the time code switches ························· 1-24
- Recording the time code/user's bit ························· 1-25
- Playing back the time code/user's bit ························· 1-25
- Superimpose screen ························· 1-26

Connections ························· **1-27**
- Connections for basic system ························· 1-27
- Dubbing connections ························· 1-27
- System using 9P editing controller ························· 1-28
- System using MII unit ························· 1-29

Others ························· **1-30**
- Error displays ························· 1-30
- Troubleshooting ························· 1-30
- Servo reference ························· 1-31
- Connector signals ························· 1-31
- Rack Mount Adaptor (option) ························· 1-32

Front Panel parts



1. Level control area

Audio (CH1) level meter:	Display CH1 audio level.
Audio (CH2) level meter:	Display CH2 audio level or tracking level/video level.
Audio (CH1) NORMAL LEVEL control: **(AG-7700 only)**	Adjusts recording level for normal audio CH1.
Audio (CH1) Hi-Fi LEVEL control: **(AG-7700 only)**	Adjusts recording level for Hi-Fi audio CH1.
Audio (CH2) NORMAL LEVEL control: **(AG-7700 only)**	Adjusts recording level for normal audio CH2.
Audio (CH2) Hi-Fi LEVEL control: **(AG-7700 only)**	Adjusts recording level for Hi-Fi audio CH2.

2. Function display lamp area

WIDE lamp:	Lights during WIDE signal recording and WIDE tape playback.
Cassette "in" lamp [ ]:	Lights when a cassette is loaded.
S-VHS lamp [S-VHS]:	Lights in S-VHS mode.
Hi-Fi lamp:	Lights when Hi-Fi audio is recorded or played back.
DOLBY* NR lamp:	Lights when Dolby NR system is used.
FRAME lamp:	Lights in framing servo lock mode.
LIMITER lamp:	Lights when audio limiter is on.
CH2-TC lamp:	Lights when audio CH2 is used as an LTC track.
SERVO lamp:	Lights in servo lock mode.
CTL/TC/UB lamps:	Lamp corresponding to selected counter display mode lights.
LTC/AUTO/VITC lamps:	Lamp corresponding to selected time code mode lights.

3. Microphone area (AG-7700 only)

MIC jacks (CH1/CH2):	Connectors for M6 external microphones.

4. Headphone area

HEADPHONE jack:	Connects M6 stereo headphones.
HEADPHONE LEVEL control:	Adjusts headphones volume.

5. Picture quality adjustment area

TRACKING control:	Adjusts noise position.
VIDEO LEVEL control: **(AG-7700 only)**	Adjusts input video level (push-pull type).

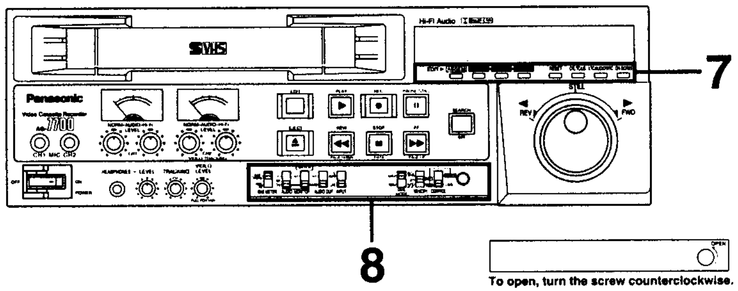
6. Basic operation area

EDIT button: **(AG-7700 only)**	Starts editing when pressed together with PLAY button.
PLAY button:	Starts playback.
REC button: **(AG-7700 only)**	Starts recording when pressed together with PLAY button.
PAUSE/STILL button:	Establishes still-picture mode during playback and pause mode during recording.
EJECT button:	Ejects cassette.
REW (PAGE DOWN) button:	Rewinds the tape; scrolls down page in MENU mode.
STOP (DATA) button:	Stops all operations; sets data in MENU mode.
FF (PAGE UP) button:	Rapidly advance the tape; scrolls up page in MENU mode.
SEARCH (SET) button:	Executes and releases search; sets menu in MENU mode.
SEARCH/JOG dial:	Adjusts search speed (outer dial for SHUTTLE mode; inner dial for JOG mode); selects menu in MENU mode.

***Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.**

***"DOLBY" and the double-D symbol ☐ are trademarks of Dolby Laboratories Licensing Corporation.**

Front panel parts (cont.)



To open, turn the screw counterclockwise.

7. Editing mode setting area

ASSEMBLE button: **(AG-7700 only)**	Sets assemble editing.
INSERT VIDEO button: **(AG-7700 only)**	Performs insert editing of video signals and Hi-Fi audio signals.
INSERT AUDIO-CH1 button: **(AG-7700 only)**	Performs insert editing of normal audio CH1.
INSERT AUDIO-CH2 button: **(AG-7700 only)**	Performs insert editing of normal audio CH2 or TC.
RESET button:	Resets counter.
CTL/TC/UB button:	Switches counter mode.
LTC/AUTO/VITC button:	Switches time code read mode.
ON SCREEN button:	Displays data on monitor TV.

8. Function setting area

CH2 METER switch:	Switches between tracking/video meter and audio CH2.
AUDIO MONITOR switch:	Selects monitor audio channel.
AUDIO MONITOR (METER) switch:	Switches monitor audio type.
AUDIO OUT switch:	Switches output audio type.
INPUT switch: **(AG-7700 only)**	Switches video input signal.
DIAL MODE switch:	Switches search dial mode.
MEMORY switch:	Switches memory mode when CONTROL switch is set to "LOCAL".
CONTROL switch:	Switches between remote and local modes.

Counter display parts

When the DIAL MODE switch is at the SEARCH position:

Mode	Counter Display	Remarks
CTL	-8:88:88:88	The shaded area remains blank for CTL interpolation.
TC	88:88:88:88	
UB	88 88 88 88	

When the DIAL MODE switch is at the MENU position:

Mode	Counter Display	Remarks
SELECT PAGE	SU:88 88	The shaded area flashes on and off.
SET PAGE	SU:88 88.88	
TC PRESET	88:88:88:88	The input digits flash on and off.
UB PRESET	88 88 88 88	

Hour meter display

The following items are indicated alternately while the RESET button is kept depressed.

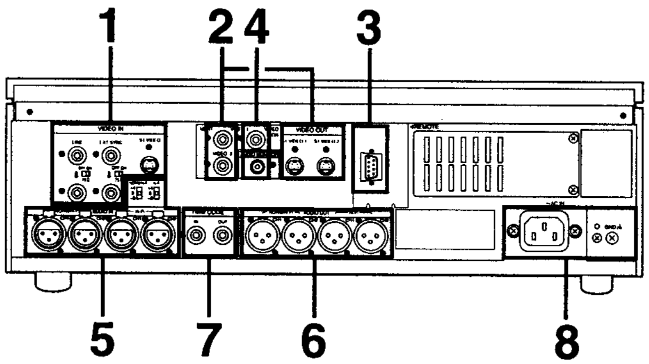
Mode	Counter Display	Remarks
Capstan rotation cumulative time	C 88 88 8H	Set the CONTROL and DIAL MODE switches to REMOTE and MENU, respectively.
Total drum rotation time	d 88 88 8H	

VITC Position display

The following items are displayed while the RESET button is kept depressed.

Mode	Counter Display	Remarks
When reading of VITC position was possible	88.88 L	Set the CONTROL and DIAL MODE switches to REMOTE and SEARCH, respectively.
When reading of VITC position was not possible	--.-- L	

Rear panel parts



1. Video input signal area

S1-VIDEO IN connector: ······ S1-VIDEO signal input connector.
(AG-7700 only)
EXT SYNC IN connector: ······ Input connector for external SYNC signal (with loop-through 75 Ω termination switch).
LINE IN connector: ······ Video signal input connector (with loop-through 75 Ω termination switch).
(AG-7700 only)

2. Video output signal area

S1-VIDEO OUT (1, 2) connectors: ······ S1-VIDEO signal output connectors.
VIDEO OUT (1, 2) connectors: ······ Video signal output connectors.

3. Remote signal area

REMOTE 9P connector: ······ Connector for editing controller (9P).

4. Monitor output signal area

VIDEO connector: ······ Output connector for video monitor signal.
AUDIO connector: ······ Output connector for audio monitor signal.

5. Audio input signal area (AG-7700 only)

Input audio level switches: ······ Set input level to –6, 0 or +4 dB.
NORM/HI-FI audio input connectors: ······ NORM/Hi-Fi audio (CH1/2) input connectors.
Hi-Fi audio input connectors: ······ Input connectors for hi-fi sound only.

6. Audio output signal area

NORM/HI-FI audio output connectors: ······ NORM/Hi-Fi audio (CH1/2) output connectors.
Hi-Fi audio output connectors: ······ Output connectors for hi-fi sound only.

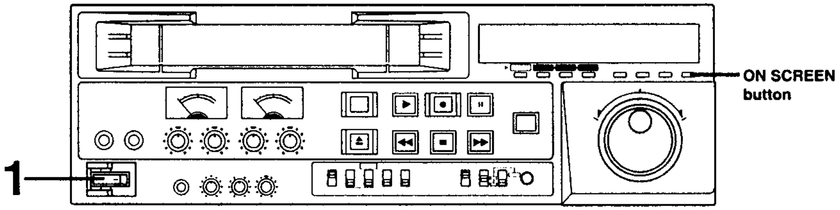
7. Time code signal area

TIME CODE IN connector: ······ Time code signal input connector.
(AG-7700 only)
TIME CODE OUT connector: ······ Time code signal output connector.

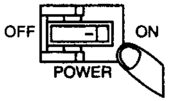
8. Power supply circuit area

GND terminal: ······ When connecting this unit to any other component, make absolutely sure that it is properly grounded by connecting this terminal.
AC IN socket: ······ Connect to AC 220~240V power outlet.

Switching on the power

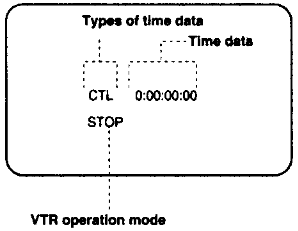

1
ON SCREEN button

1. Press the POWER switch.


OFF
ON
POWER

The power is now supplied to the unit.

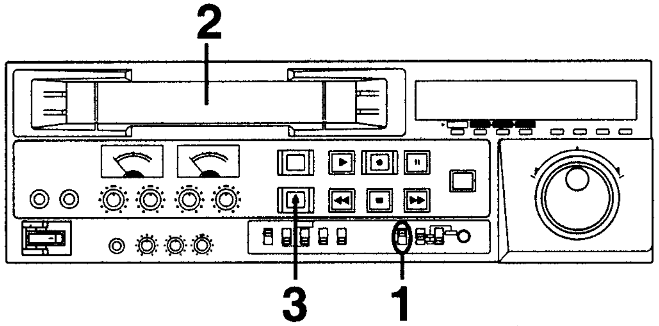
- The display below appears through VIDEO MONITOR OUT connector if the ON SCREEN button is pressed.


Types of time data
Time data
CTL
0:00:00:00
STOP
VTR operation mode

This appears only when item No. 4004 of the dial menu function is ON.

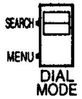
- If an error appears on the display, stop operation immediately and read page E-54.

Installing a cassette



1. Set the DIAL MODE switch to SEARCH.

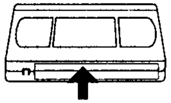
- When the DIAL MODE switch is at "MENU", operations not relating to the dial menu functions cannot be performed.


SEARCH
MENU
DIAL MODE

2. To install the cassette tape:

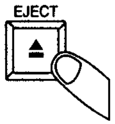
Insert the tape in the slot provided and push the center area of the cassette gently.

The cassette "in" lamp now lights in the function display lamp area.



3. To remove the cassette tape:

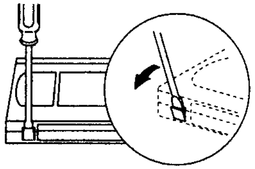
Press the EJECT button. Draw the emerging cassette tape out straight toward you.
The cassette "in" lamp now goes off.



MEMO

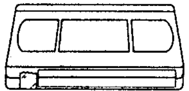
To prevent accidental erasure of recorded material:

Break out the tab to prevent further recording.



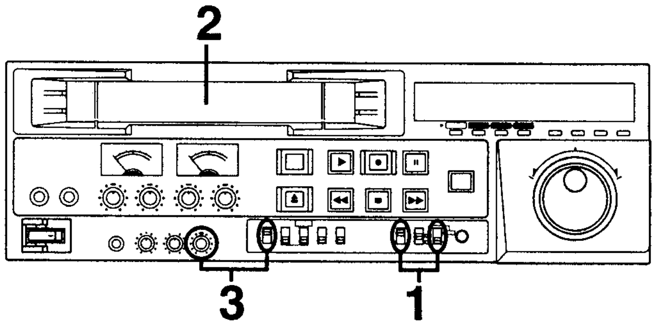
To re-record:

Block the tab hole with cellophane tape.



Block the hole with tape.

Recording (AG-7700 only)

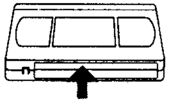


1. Set the switches (see page E-21 to E-23).

CONTROL switch → LOCAL
DIAL MODE switch → SEARCH

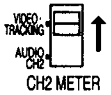
2. Install the cassette tape (see page E-13).

Check that the tab on the recording tape for preventing accidental erasure has not been broken out.



3. Adjust the recording level.

[1] **Set the CH2 METER switch to "VIDEO TRACKING."**



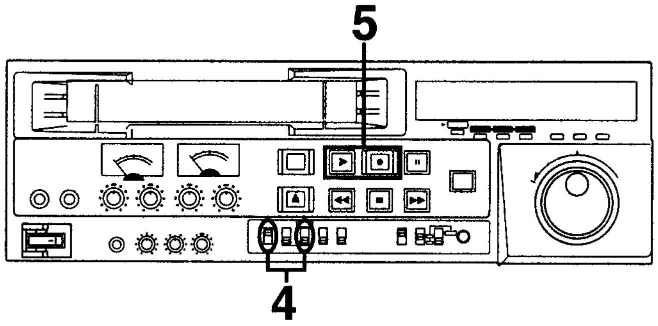
[2] **Automatic adjustment**
Press in the VIDEO LEVEL control. The recording level will now be adjusted automatically.

[3] **Adjustment to desired level**
Pull out and turn the VIDEO LEVEL control.

The appropriate recording level is where "0" is indicated on the level meter.

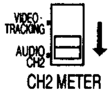
- The AUDIO CH2 level meter indicates the recording level during recording.

VIDEO LEVEL
PULL FOR VAR



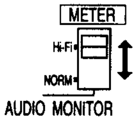
4. Adjust the audio recording level.

[1] **Set the CH2 METER switch to "AUDIO CH2."**



[2] **Select the type of sound whose level is to be adjusted.**

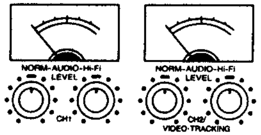
Use the METER switch for this.
Hi-Fi: The meter displays the hi-fi audio level.
NORM: The meter displays the normal audio level.



[3] **Level adjustment**

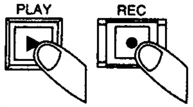
Rotate the level controls and set them to the highest possible value where the pointers do not pass beyond the "0" position on the level meters.

- Set the "AUDIO LIMITER" (item No. 3002) dial menu function to "OFF" before proceeding with the normal audio level adjustment.



5. Press the REC and PLAY buttons together.

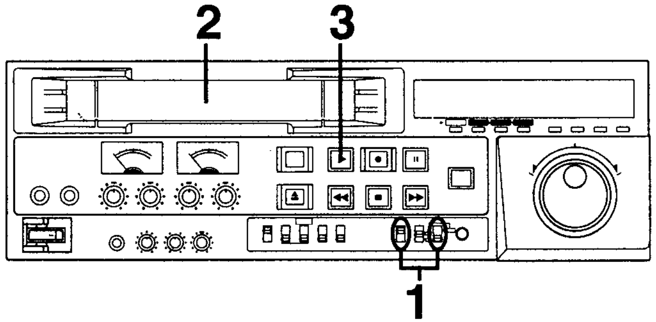
Recording now starts.



MEMO

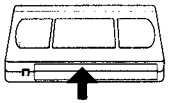
- The dial menu functions are used to activate the audio limiter function and Dolby NR system (see page E-36).
  When the audio limiter function is activated, the automatic volume limiter circuit operates to ensure that the sound is recorded without distortion even if the input level should reach an excessively high level during recording.
  The Dolby NR system ensures that the sound is recorded and played back with reduced tape noise (hiss).
- When recording Hi-Fi sound, set the "HI-FI REC" (item No. 3003) dial menu function to "ON".
- When the Hi-Fi sound is not to be recorded, it is not enough merely to set the level control to the "0" position. Be sure to set the "HI-FI REC" (item No. 3003) dial menu function to "OFF".
- The Hi-Fi audio input connectors can be switched using the "HI-FI INPUT SELECT" (item No. 3004) dial menu function.
- To make a recording using an external sync signal, set the "SYNC" (item No. 1001) dial menu function to "EXT".

Playback

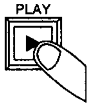


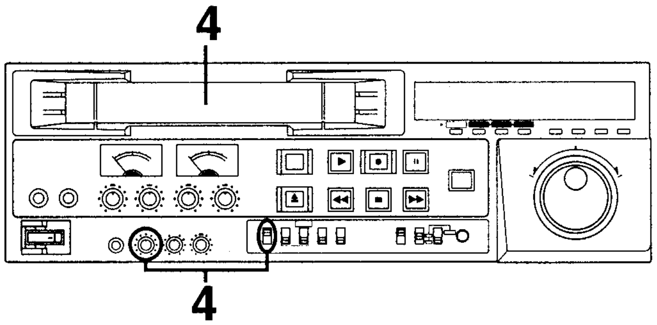
1. **Set the switches** (see page E-21 to E-23).
   CONTROL switch → LOCAL
   DIAL MODE switch → SEARCH

2. **Install the cassette tape** (see page E-13).
   Install the tape with the recorded sound and pictures which are to be played back.



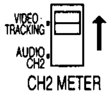
3. **Press the PLAY button.**
   Playback now commences.





4. **Adjust the tracking.**

[1] **Set the CH2 METER switch to "VIDEO TRACKING."**


VIDEO TRACKING
AUDIO CH2
CH2 METER

[2] **Normally,**

the TRACKING control is set to its center "fix" position for playback.

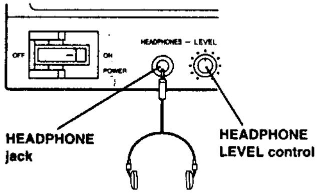
TRACKING
FIX

[3] **When playing back a tape which has been recorded on another VTR,**

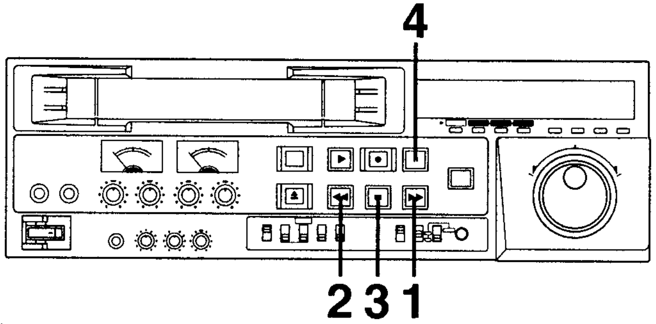
turn the TRACKING control slowly to the left or right and set so that the meter pointer deflects to the maximum.

NOTES

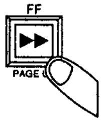
- Set the Dolby NR system ON using the dial menu function when playing back a tape which has been recorded using the system (see page E-36).
- If the tracking shifts out of alignment during playback, the Hi-Fi lamp will go out and the Hi-Fi sound will not be output even if it was recorded.
- When using the headphones:
  The volume level may change when high-impedance headphones are connected.
- To playback a signal using an external sync signal, set the "SYNC" (item No. 1001) dial menu function to "EXT".


OFF
ON
POWER
HEADPHONES - LEVEL
HEADPHONE jack
HEADPHONE LEVEL control

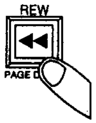
FF, REW stop and pause/still



1. **Fast forwarding the tape**
Press the FF button.

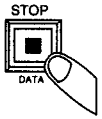


2. **Rewinding the tape**
Press the REW button.

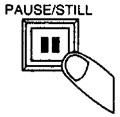


3. **Stopping the tape**
Press the STOP button.

- The STOP button lights and all operations are stopped.
- When the "PB/EE SELECT" (item No. 2004) dial menu function is set to "EE", E-E pictures will appear on the TV monitor.



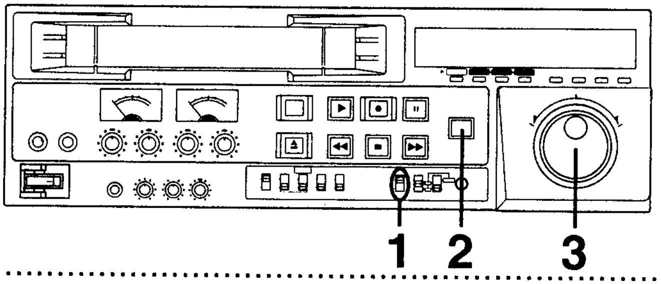
4. **Pause**
Press the PAUSE/STILL button during recording or playback.
- During playback, the unit is placed in the PAUSE/STILL mode and still pictures are played back.
- During recording, the unit is placed in the REC/PAUSE mode and recording is temporarily suspended.



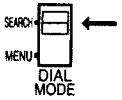
NOTES

- Set the CONTROL switch to LOCAL.
- Set the DIAL MODE switch to SEARCH.
- The unit is automatically placed in the tape protection mode if the STOP or PAUSE/STILL mode should continue beyond a certain period of time (which can be set using the item No. 1002 to 1004 dial menu function). (See page E-34.)

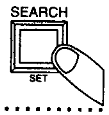
Search operations



1. **Set the DIAL MODE switch to "SEARCH".**



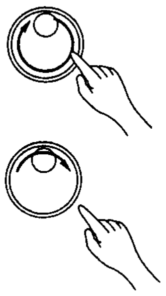
2. **Press the SEARCH button.**
The SEARCH button, PLAY button and PAUSE/STILL button light, indicating that a search can now be performed.



3. **Operate the search dial.**
The inner dial is used for the jog mode and the outer dial for the shuttle mode.
- When the dial is turned toward the right, the tape is played back in the forward direction (the FWD lamp lights); conversely, when it is turned toward the left, the tape is played back in the reverse direction (the REV lamp lights).

[1] **JOG mode**
Turn the outer dial to the center position. The tape is played back at a speed ranging from a still picture to ±1x the normal speed depending on the speed at which the inner dial is turned.
When the turning of the dial is stopped, a still picture display appears regardless of the switch setting.

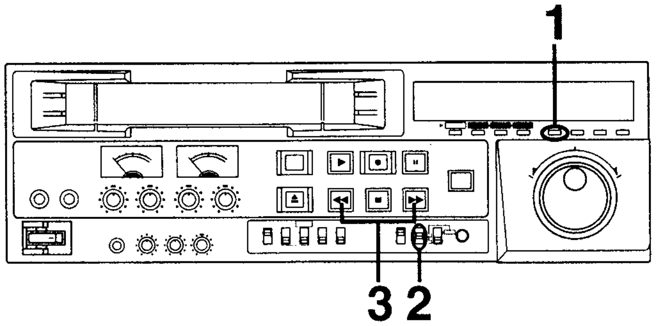
[2] **SHUTTLE mode**
In response to the angle to which the outer dial is turned, the tape can be played back at a speed ranging from 0 to ±32x faster or slower than normal tape speed. (However, when the tape approaches the end, the low-speed search mode is established in order to protect the tape from possible damage.) A still picture results at the center (click-stop) position.
When the tape is played back at the –32x speed, the picture on the monitor screen will slip: this is normal and not indicative of malfunctioning.



NOTES

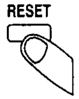
- Keep the CONTROL switch at the LOCAL position.
- When setting the direct search mode, set the "DIRECT SEARCH" (item No. 1005) dial menu function to "ON." (See page E-34.)

AUTO STOP function

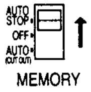


1. **Press the RESET button at the position where the tape is to be automatically stopped.**

The tape counter displays "0:00:00:00."

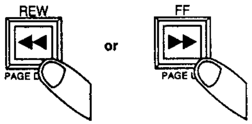


2. **Set the MEMORY switch to AUTO STOP.**



3. **Proceed with fast forward or rewinding.**

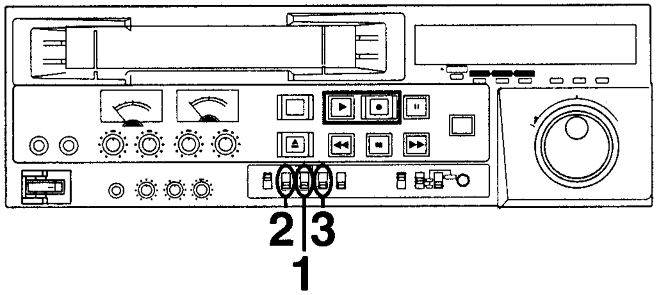
The tape automatically stops when the tape counter display nears the "0:00:00:00" mark.



NOTE

- The AUTO STOP function does not work when:
  - The CONTROL switch is at the "REMOTE" position.
  - The CTL/TC/UB button is at any position except "CTL."
  - DIAL MODE switch is at the "MENU" position.
- The AUDIO OUT level can be selected using the switch (located below the circuit board's metal clamp) on the AUDIO2 printed circuit board. (See page E-51.)

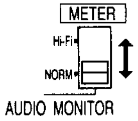
Setting the audio switches



1. **Setting the AUDIO MONITOR (METER) switch**

This is used to select the sound displayed on the level meter and the sound which is output to the headphone jack on the front panel or the AUDIO MONITOR connector on the rear panel.

HI-FI: Hi-Fi sound is selected.
NORM: Normal sound is selected.



2. **Setting the AUDIO MONITOR switch**

This is used to select the audio channel for the sound output to the headphones jack on the front panel and the AUDIO MONITOR connector on the rear panel.

CH1: The CH1 sound is output.
MIX: Mixed CH1 and CH2 sound is output to the headphones jack CH1 sound is heard at the left and CH2 sound at the right.
CH2: The CH2 sound is output.

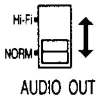
- No sound will be heard from normal audio CH2 when the "AUDIO CH2" (item No. 3006) dial menu function is set to "LTC."

CH1
MIX
CH2
AUDIO MONITOR

3. **Setting the AUDIO OUT switch**

This is used to select the sound which is output to the AUDIO OUT (NORM/Hi-Fi) connectors on the rear panel.

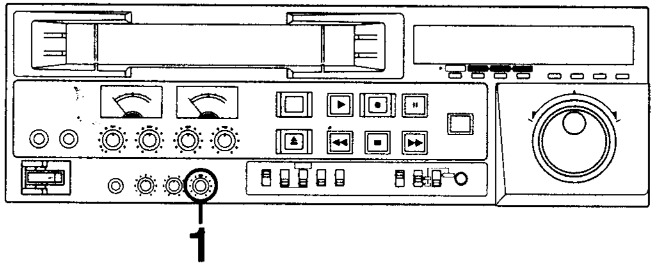
HI-FI: Discriminates between Hi-Fi and normal audio automatically. When there is no Hi-Fi audio output signal, normal audio will be automatically outputted.
NORM: Normal sound is selected.



NOTE

- Set "HI-FI REC" (item No. 3003) dial menu function to "ON", to record Hi-Fi sound.
  ON: Hi-Fi sound and normal sound are recorded.
  OFF: Normal sound is recorded.

Setting the video switches



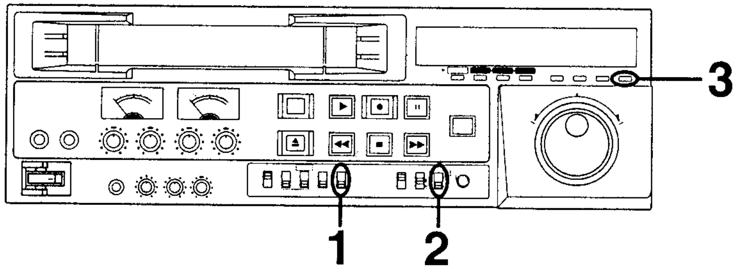
1. Setting the VIDEO LEVEL control (AG-7700 only)

This is used to adjust the video level automatically during recording.

PUSH: The video level is automatically adjusted.
PULL: The video level is not automatically adjusted.

VIDEO
LEVEL
PULL FOR VAR

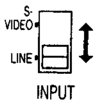
Other switch settings



1. Setting the INPUT switch (AG-7700 only)

During editing this switch is set to the position corresponding with the input signal.

S-VIDEO:	When recording video signals which have been input to the S1-VIDEO IN connectors.
LINE:	When recording video signals which have been input to the VIDEO IN connectors.

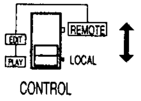


2. Setting the CONTROL switch

This is used to set the unit's control mode.

REMOTE:	Set to this position for operating the unit by remote control using an controller, etc. Only the unit's eject function will now be operational.
LOCAL:	Set to this position to operate the unit.

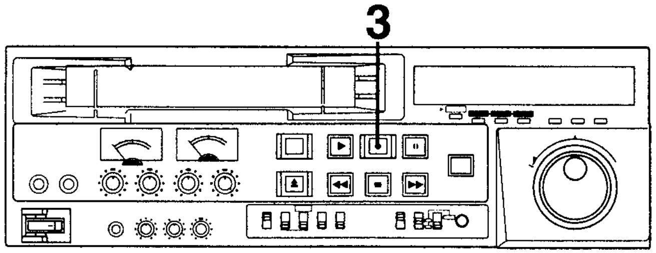
- The operation modes of this unit in the REMOTE mode can be set using dial menu item No. 5001.



3. Setting the ON SCREEN button

This is used to add a time code or other superimpose signal to the video signal which is output from the VIDEO MONITOR connector.

Before proceeding with editing
(AG-7700 only)



"Editing" consists in taking pre-recorded tapes, combining various material into one part, cutting out the parts which are not desired and connecting only what is required into a single program. There are two editing modes: assemble and insert. Complete the operations listed below before proceeding with editing.
(CTL editing is the type of editing which is possible when only this unit is used for editing. Time code editing is not possible.)

1. Complete the adjustments and settings (see page E-21 to page E-23).

2. Check whether the FRAME LOCK lamp lights when the following steps are taken.

[1] **Playback the tape which is to be edited.**

[2] **Use the TRACKING control on the source unit so that the TRACKING meter pointer deflects to its maximum.**

[3] **Set the TRACKING control on the editor to its center clickstop position.**

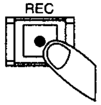
[4] **Set the "FRAME SERVO" (item No. 6005) dial menu function on the editor unit to "ON".**

[5] **Check that the FRAME lamp at the source unit side has lighted.**
■ If the lamp is off, set the "SYNC" (item No. 1001) dial menu function on the editor to "NORMAL".

[6] **Check that the FRAME lamp on the editor has lighted.**
■ If the FRAME lamp is off, the edited pictures may be thrown into disarray.

3. The material to be edited can be checked on the TV monitor.

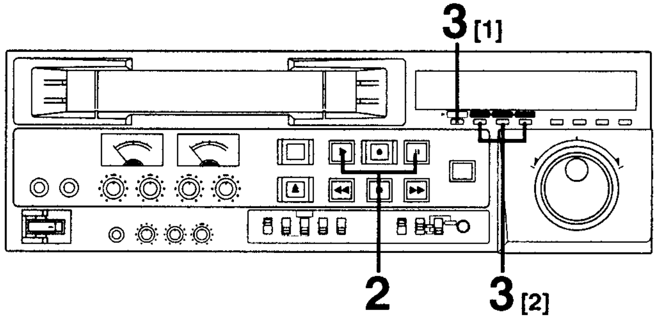
Press the REC button while playback is in progress.



E-E pictures can be viewed while the REC button is depressed. Signals are not recorded onto the tape.

- E-E pictures cannot be viewed if a cassette has been inserted without its accidental erasure prevention tab.

Selecting the editing mode
(AG-7700 only)

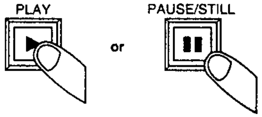


1. Proceed first with the editing preparations.

Refer to "Before proceeding with editing" on the previous page for details.

2. Set the unit to the PLAY or PLAY/STILL mode.

Press the PLAY button or PAUSE button.



3. Select the editing mode.

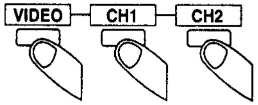
[1] **Assemble editing**

Press the ASSEMBLE button.

When it is pressed once, the button lights; when it is pressed again, its light goes off.

[2] **Insert editing**

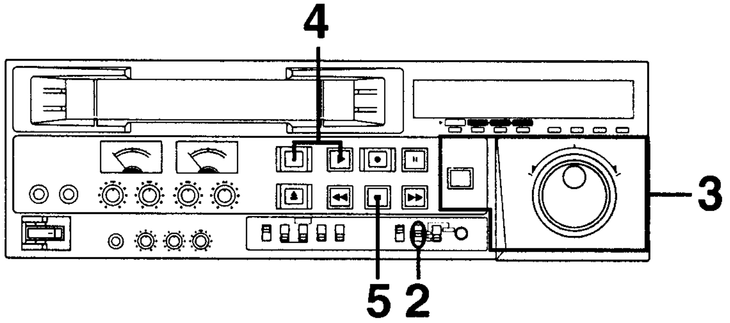
Select the INSERT (VIDEO, AUDIO-CH1, AUDIO-CH2) button corresponding to the editing.



When it is pressed once, the button lights; when it is pressed again, its light goes off.

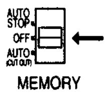
Insert editing applies only to the signals for the button which has lighted.

Executing manual editing (AG-7700 only)

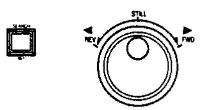


1. **Select the editing mode.**
   Refer to "Selecting the editing mode" on the previous page for details.

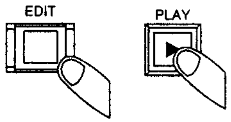
2. **Set the MEMORY switch to OFF.**
   If this switch is at the AUTO (CUT OUT) position, editing will be cut out and stopped when the counter display shows "0:00:00:00."



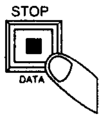
3. **Find the edit start point by conducting a search operation and place the unit in the still picture mode.**
   Refer to page E-19 for details on search operations.



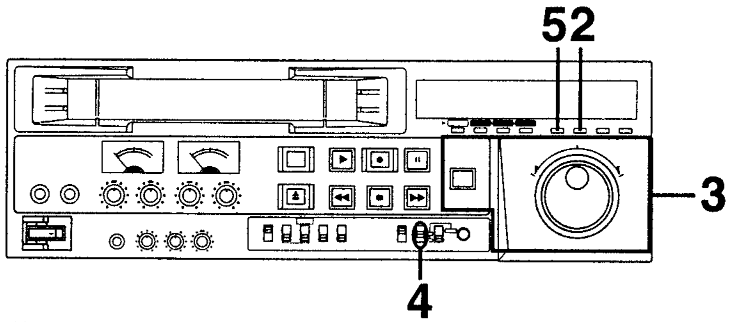
4. **Press the PLAY button while pressing down the EDIT button.**
   The tape jogs back automatically for about 3 seconds, and editing commences. (When colour framing for about 5 seconds.)



5. **Press the STOP button to stop editing.**



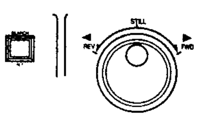
AUTO CUT OUT editing (simple automatic editing) (AG-7700 only)



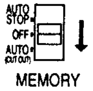
1. **Select the editing mode.**
   Refer to "Selecting the editing mode" on page E-25 for details.

2. **Set to CTL mode with the CTL/TC/UB**
   Press the CTL/TC/UB button to switch to the CTL mode.
   Each press of the button causes one of the function indicator lamps, "CTL," "TC" or "UB," to light.

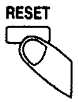
3. **Find the edit end point by conducting a search operation and place the unit in the still picture mode.**
   Refer to page E-19 for details on search operations.



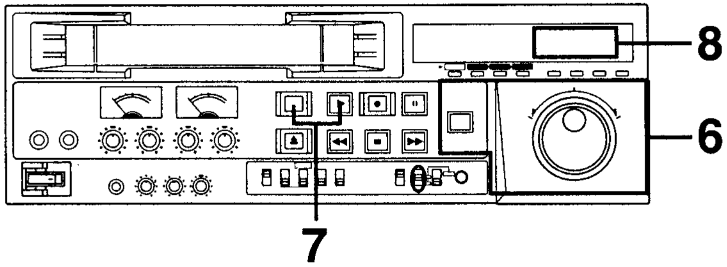
4. **Set the MEMORY switch to AUTO (CUT OUT).**



5. **Press the RESET button.**
   The tape counter is reset to "0:00:00:00." The corresponding place on the tape is the edit end point.

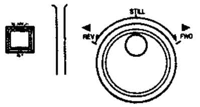


AUTO CUT OUT editing (simple automatic editing) (AG-7700 only)



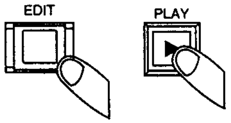
6. Find the edit start point by conducting a search operation and place the unit in the still picture mode.

Refer to page E-19 for details on search operations.



7. Press the PLAY button while pressing down the EDIT button.

The tape jogs back automatically for about 3 seconds, and editing commences.
(When colour framing for about 5 seconds)



8. End of editing

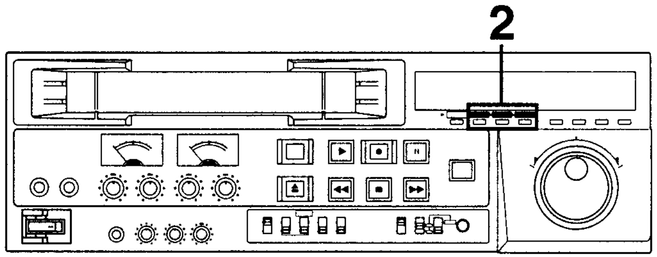
When the tape counter reaches "0:00:00:00," editing will be automatically cut out.

- With insert editing, the tape is rewound automatically in the vicinity of the cut out point.

0:00:00:00
HOURS MINUTES SECONDS FRAMES

Split editing (AG-7700 only)

"Split editing" consists in changing the editing signals during insert editing.



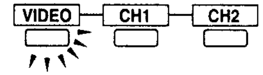
1. Execute insert editing.

See page E-25 for details.

2. Change the editing signals.

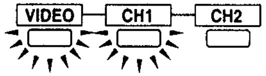
Example of operation:
Adding and inserting the AUDIO CH1 sound during the insert editing of the VIDEO/Hi-Fi signals

[1] **Insert editing of the VIDEO/HI-FI signals in progress**



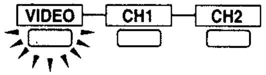
[2] **Press the AUDIO CH1 button.**

The AUDIO CH1 sound is insert-edited.



[3] **Press the AUDIO CH1 button again.**

The insert-editing of the AUDIO CH1 sound is terminated.



NOTES

- The editing mode cannot be switched to assemble editing while insert editing is in progress.
- The editing mode cannot be switched to insert editing while assemble editing is in progress.
- The editing signals cannot be switched during the approximately 3-second long AUTO BACK operation or while the tape is traveling in preparation. (When colour framing for about 5 seconds.)

Precautions for editing (AG-7700 only)

- If the EDIT START button is pressed without the editing mode having been set, the edit mode buttons (ASSEMBLE, VIDEO Hi-Fi, AUDIO CH1, AUDIO CH2) flash 6 times to prompt the operator to select the mode.
- Due to the preroll requirements, a pre-recorded section lasting at least 3 seconds must precede the edit start point. Editing cannot be conducted from the very start of the tape.
  Normally, the controller's preroll time is set to 5 or more seconds. However, when phase-synchronized editing is not to be performed, editing is possible with a 3-second preroll time by using an external sync signal (EXT).
- However, since the external sync signal cannot be used during colour framing editing, editing cannot be conducted if the section lasts only 3 seconds.

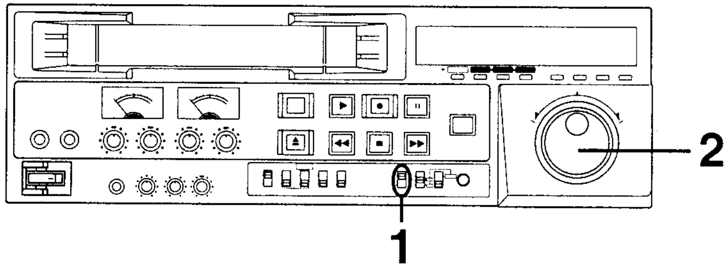
Precaution for assemble editing

- Bear in mind that about 2 seconds of the original recording after the edit end point will be erased.

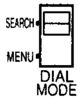
Precautions for insert editing

- The picture will be thrown into disarray at the edit start and end points if insert editing is conducted using the VHS system on a tape which has been recorded using the S-VHS system.
- Since the control signal is used for the editing, make sure that the edit period does not extend beyond the recording made on the tape.

Using the dial menu functions

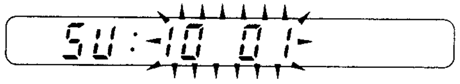


1. Set the DIAL MODE switch to MENU.

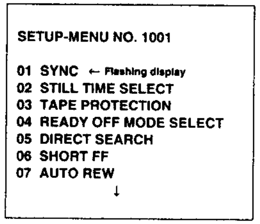


This disables all operations except those relating to the dial menu functions.
(This unit remains in the mode which was established before the dial menu functions were displayed.)

The following appears on the display.



The SETUP-MENU screen appears on the monitor which is connected to the MONITOR VIDEO connector.
The monitor display shows the following.



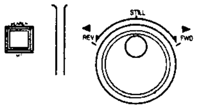
SETUP-MENU NO. 1001

01 SYNC ← Flashing display
02 STILL TIME SELECT
03 TAPE PROTECTION
04 READY OFF MODE SELECT
05 DIRECT SEARCH
06 SHORT FF
07 AUTO REW
↓

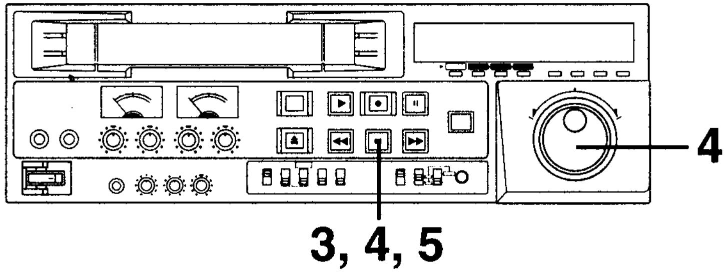
2. Turn the JOG dial and locate the setting item

When it is turned clockwise, the number is successively incremented from 1001 → 1002 → 1003 → etc. Conversely, when it is turned counterclockwise, the number is successively decremented. (The selected item is indicated by flashing.)

- Press the FF (page up) or REW (page down) button to scroll the menu up or down 1-page units.

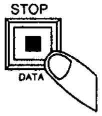


Using the dial menu functions



3. Press the STOP button when the desired item is located.

The set-up change screen is displayed while the STOP button is kept depressed.
The following appears on the display.



SU: 10 01-00

The monitor display showns the following.

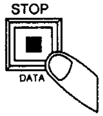
SETUP-MENU NO. 1001-00

01 SYNC

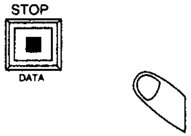
NORMAL ← **Flashing display**

4. Turn the JOG dial while pressing the STOP button.

The flashing display changes. Set the item to the desired value.

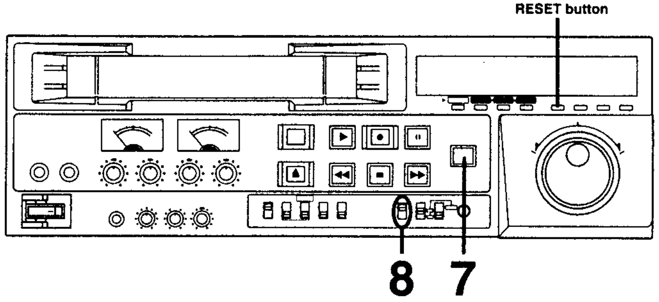


5. Release the STOP button.



NOTE

- The setting method differs for item No. 7010 and 7011. (See page E-41).

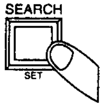


6. Repeat steps 3 to 5.

Set all the items whose set-up is to be changed to the desired value.

7. Upon completion of the settings, press the SEARCH (SET) button.

The set-up changes are now entered, and the following message appears.

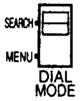


[SETUP-MENU END]
SET TO SEARCH POS

■ The display indication returns to the normal counter indication.

8. Return the DIAL MODE switch to SEARCH.

The normal screen is returned.



- If the switch is returned to SEARCH without the SET button having been pressed in step 7, the settings will not be entered.

MEMO

- To return set-up items to their original (factory-set) settings, press the RESET button when the SETUP-MENU is indicated. The following message appears.

SETUP-MENU INIT. SET
OK ? (PUSH PLAY KEY)

The values are restored to their original settings when the PLAY button is pressed.

Set-up menu screen

Operation/function set-up items

Item		Set-up value		Description of function
No.	**Superimpose display**	**No.**	**Superimpose display**	
1001	SYNC	00 01	NORMAL EXT	Selects the sync signal. 00: Synchronization with the input video signal. 01: Synchronization with the external sync signal.
1002	STILL TIME SELECT	00 01 02 03	2 SEC 30 SEC 1 MIN 5 MIN	When the unit is in the STOP or STILL mode, this selects the duration of time after which the unit is automatically placed in the TAPE PROTECTION mode in order to protect the tape. The setting is valid from the next time the STOP or STILL mode is activated.
1003	TAPE PROTECTION	00 01	READY OFF AUTO ADVANCE	Selects the operation to be performed in the TAPE PROTECTION mode. The setting is valied from the next time the TAPE PROTECTION mode is activated. 00: The READY OFF mode is established. 01: Each time the duration specified by the STILL TIME SELECT setting elapses, the tape is advanced three frames, and the unit enters the READY OFF mode approximately 30 minutes later.
1004	READY OFF MODE SELECT	00 01 02	DRUM ROTATE DRUM STOP UNLOADING	Selects the operation in the READY OFF mode. 00: Drum rotates due to loose tape. 01: Drum stops due to loose tape. 02: Unloading
1005	DIRECT SEARCH	00 01	OFF ON	Selects the direct search mode. 00: Normal search operation. 01: Unit is automatically placed in the search mode when the search dial is operated even without the search button being pressed.
1006	SHORT FF	00 01	OFF ON	Selects the short FF function. 00: No short FF operation. 01: Short FF operation is conducted at tape start.
1007	AUTO REW	00 01	OFF ON	Selects the auto rewind function. 00: Stops at tape end. 01: When the tape reaches the end, it is automatically rewound to the start and the unit stops operating.
1008	AUTO BACK **(AG-7700 only)**	00 01	OFF ON	Sets the auto back space recording function. 00: Normal recording/pause mode 01: When the REC button is pressed in the PLAY/STILL mode or if the PAUSE/STILL button is pressed during recording, the tape is rewound for about 3 seconds and the unit is placed in the standby mode. When the PAUSE/STILL button is then pressed, the unit conducts playback for 3 seconds and then recording commences.

[The shading denotes the initial setting.]

Video set-up items

Item		Set-up value		Description of function
No.	Superimpose display	No.	Superimpose display	
2001	IMAGE MODE SELECT	00 01	NORMAL EDIT	00: Select this setting for normal operation. The noise canceler and CAC function operate for both the luminance and chrominance signals. 01: Select for editing.
2002	VIDEO MODE	00 01 02	COLOUR AUTO B/W	Selects the colour mode of the input video signal. 00: Forces colour mode operation. 01: Automatically detects color mode by the input signal. 02: Forces black and white mode operation.
2003	NOTCH FILTER	00 01	OFF ON	Set the notch filter 00: Notch filter OFF. 01: Notch filter ON. (This switch has nothing to do with recording for AG-7700.)
2004	PB/EE SELECT	00 01	PB/EE EE	Sets the image that appears on the screen when the unit is in the STOP mode. 00: The playback image is output. 01: The EE image is output.
2005	WIDE MODE SELECT	00 01 02	AUTO WIDE NORMAL	Sets the unit's operation for WIDE IDs. 00: Records a WIDE ID on the tape when wide data is encountered in the input signal during recording. During playback, wide data is added to the Y and C output signals if there is a WIDE ID on the tape. 01: Appends wide data to the Y/C output signal and records a WIDE ID on the tape during recording. 02: No wide data is accepted.
2006	S-VHS REC **(AG-7700 only)**	00 01	OFF ON	Selects the recording format. 00: Recording are made in VHS format. 01: Recording are made in S-VHS format. (With an S-VHS tape only)

[The shading denotes the initial setting.]

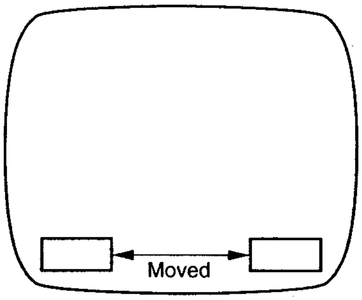
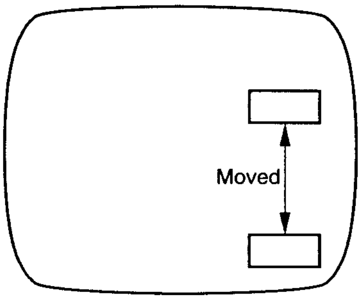
Set-up menu screen (cont.)

Audio set-up item

Item		Set-up value		Description of function
No.	Superimpose display	No.	Superimpose display	
3001	DOLBY NR	00 01	OFF ON	Sets the Dolby NR system. 00: Dolby NR system OFF. 01: Dolby NR system ON.
3002	AUDIO LIMITER **(AG-7700 only)**	00 01	OFF ON	Set the audio limiter function. 00: Dynamic volume is recorded in its original form. 01: Automatic volume limiter circuit operates to enable sound to be recorded without distortion even when the input level reaches an excessively high level at moments during recording. (This function works for normal sound only.)
3003	HI-FI REC **(AG-7700 only)**	00 01	OFF ON	Selects the Hi-Fi recording setting. 00: Only normal audio is recorded; no Hi-Fi audio is recorded. 01: Both Hi-Fi and normal audio are recorded.
3004	HI-FI INPUT SELECT **(AG-7700 only)**	00 01	HI-FI INPUT NORMAL INPUT	Selects input connectors during Hi-Fi sound recording. 00: Hi-Fi audio input connectors 01: NORM/Hi-Fi audio input connectors
3005	CH1 REC **(AG-7700 only)**	00 01	CH1 MIX	Selects the input during normal sound CH1 recording. 00: Records CH1 sound. 01: Records mixed CH1/CH2 sound.
3006	AUDIO CH2	00 01	AUDIO LTC	Switches normal audio on or off in CH2. 00: CH2 is used for audio recording. 01: CH2 is used as the LTC track.

[The shading denotes the initial setting.]

Superimpose set-up items

Item		Set-up value		Description of function
No.	Superimpose display	No.	Superimpose display	
4001	CHARACTER BACKGROUND	00 01	Selection is made while opserving superimpose display.	Selects background mode for VIDEO MONITOR superimpose display. 00: Black display = LTCR 00:00:00:00 01: Edge display = LTCR 00:00:00:00
4002	CHARACTER H-POSITION	00 01 02 03 04 05 06 07	Selection is made while opserving superimpose display.	Selects horizontal position for VIDEO MONITOR superimpose display; moves characters to right as No. is increased. 
4003	CHARACTER V-POSITION	00 01 02 03 04 05 06 07	Selection is made while opserving superimpose display.	Selects vertical position for VIDEO MONITOR superimpose display; moves characters to down as No. is increased. 
4004	STATUS SUPER	00 01	OFF ON	Selects whether VTR operation mode is to be indicated as a superimposed display. 00: VTR operation not displayed. 01: VTR operation displayed.

[The shading denotes the initial setting.]

Set-up menu screen (cont.)

Remote set-up items

Item		Set-up value		Description of function
No.	Superimpose display	No.	Superimpose display	
5001	EJECT/STOP FNCTN REM.	00 01	POSSIBLE NOT POSSIBLE	Enables or disables operation of panel EJECT/STOP button in remote mode. 00: Enables operation. 01: Disables operation.
5002	9P DEVICE TYPE SELECT	00 01	OTHER TYPES S-VHS ID	Selects ID code returned to 9P device type request command. 00: When connecting a controller not made by Panasonic. 01: When connecting a controller made by Panasonic.
5003	9P FF/REW MODE	00 01	LOADING UNLOADING	Selects the unit's operation in response to FF and REW commands. 00: FF or REW are excuted with the tape loaded. 01: FF or REW are excuted after the tape is unloaded.

[The shading denotes the initial setting.]

Editing set-up values

Item		Set-up value		Description of function
No.	Superimpose display	No.	Superimpose display	
6002	AUTO PREROLL ENTRY	00 01	NOT ENTERED ENTERED	Selects whether to enter IN point by preroll command when IN point has not been entered. 00: Not entered 01: Entered
6003	PREROLL TIME	00 01 ⋮ 05 ⋮ 10 ⋮ 15	0 SEC 1 SEC ⋮ 5 SEC ⋮ 10 SEC ⋮ 15 SEC	Selects preroll time for 9P control from 0 to 15 sec.
6004	PLAY DELAY	00 01 ⋮ 05 ⋮ 10 ⋮ 15	0 FRAME 1 FRAME ⋮ 5 FRAME ⋮ 10 FRAME ⋮ 15 FRAME	Selects play delay time during play start from 0 to 15 frames.
6005	FRAME SERVO AG-7600 00 OFF } only 01 ON }	00 01 02	OFF ON COLOUR FRAME	Sets framing mode 00: Set to this position when signals not in conformity with EIA standard signals are supplied. Framing is not conducted. 01: Framing is conducted if set to this position when signals in conformity with EIA standard signals are supplied. 02: 4 sequence colour framing mode is activated.

[The shading denotes the initial setting.]

- At the SYNC EXT setting, the COLOUR FRAME function does not operate, and only framing is conducted.
- Do not synchronize the phase at the source machine during colour framing editing. (Do this at the editor.)

Set-up menu screen (cont.)

Time code set-up items

Item		Set-up value		Description of function
No.	Superimpose display	No.	Superimpose display	
7001	TC INT/EXT SELECT **(AG-7700 only)**	00 01	INT EXT	Set this switch to EXT if an external time code connection has been made.
7002	TC MODE **(AG-7700 only)**	00 01 02	REGEN REC RUN FREE RUN	Selects the TC mode. 00: Operates to maintain continuity of the data on the tape. 01: Uses an internal preset value to advance the tape only during recording. 02: Uses an internal preset value to advance the tape all the time.
7003	VITC REC **(AG-7700 only)**	00 01	OFF ON	Selects whether or not to use VITC recording. 00: Don't use VITC recording. 01: Use VITC recording.
7004	VITC POSITION SEL-1 **(AG-7700 only)**	00 01 : 04 05 06 : 15	7 LINE 8 LINE : 11 LINE 12 LINE 13 LINE : 22 LINE	Selects VITC signal insertion line. *Same line as No. 7005 cannot be selected. (Avoid selecting an adjoining line.)
7005	VITC POSITION SEL-2 **(AG-7700 only)**	00 01 : 05 06 : 15	7 LINE 8 LINE : 12 LINE 13 LINE : 22 LINE	Selects VITC signal insertion line. *Same line as No. 7004 cannot be selected. (Avoid selecting an adjoining line.)
7006	VITC REGEN **(AG-7700 only)**	00 01	PLAY PLAY + REC	Selects when to use VITC REGEN processin. 00: Perform REGEN processing during playback. 01: Perform REGEN processing during playback and when recording audio.
7007	TCG REGEN MODE **(AG-7700 only)**	00 01 02	TC∗UB TC UB	Selects regeneration signal when TCG is in REGEN mode. 00: Regeneration for time code and user's bi 01: Regeneration for time code only. 02: Regeneration for user's bit only.
7008	TC OUT SIGNAL REGEN	00 01	OFF TAPE REGEN	Sets the waveform to be output from the TIME CODE OUT connector when in the INTERNA REGEN mode. 00: Outputs the playback signal without modification. 01: Outputs the playback signal with REGEN processing during SERVO LOCK only.

[The shading denotes the initial setting.]

Time code set-up items

Item		Set-up value		Description of function
No.	**Superimpose display**	**No.**	**Superimpose display**	
7009	UB BINARY GROUP FLAG **(AG-7700 only)**	00 01 02 03	NOT SPECIFIED ISO CHARACTER UNASSIGNED 1 UNASSIGNED 2	Selects the way the user's bit is used using TCG generation. 00: Not character set specified. 01: 8-bit character set conforming to ISO646 and ISO2022. 02: Undefined. 03: Undefined.
7010	TIME CODE PRESET **(AG-7700 only)**	00	TCG preset value is set while observing the screen.	Sets preset value of time code generator. 00:00:00:00~23:59:59:24
7011	U-BIT PRESET **(AG-7700 only)**	00	UBG preset value is set while observing the screen.	Sets preset value of user's bit. 00 00 00 00~FF FF FF FF
7012	EXT VITC READ **(AG-7700 only)**	00 01	REC EJECT+STOP+REC	Selects the mode for reading the VITC of the input video signal. 00: VITC is read only during recording. 01: VITC is read in the eject, stop or recording mode.
7013	9P VITC TO DUMMY LTC	00 01	OFF ON	Selects the response from 9P to CURRENT TIME SENSE when CH2 is set to "AUDIO." 00: REQUEST TIME DATA MISSING is returned. 01: VITC data is returned as LTC.
7014	9P INTERPOLATED VITC	00 01	HOLD VITC INTERPOLATED LTC	Selects the response method used to return the VITC CTL interpolation value from 9P in response to CURRENT TIME SENSE. 00: HOLD_VITC (74H 16H) is returned. 01: INTERPOLATED LTC (74H 14H) is returned.

7010/7011 setting method

1. Press the STOP button at item No. 7010 or 7011.
2. Turn the JOG dial and move the display to be changed (flashing display).
3. The value will change for item No. 7010 and 7011 when the JOG dial is turned while the STOP button is kept pressed.
4. Press the SEARCH (SET) button upon completion of the settings.

- The present time, code value is displayed as the initial value for item No. 7010 and 7011. When the RESET button is pressed, it will be reset to "00:00:00:00."
- Operation is not possible for item No. 7010 and 7011 unless the "TC INT/EXT SELECT" (item No. 7001) dial menu function set to "INT" and "TC MODE" (item No. 7002) dial menu function is set to "REC RUN" or "FREE RUN."
- Once the setting mode i entered for item No. 7010 or 7011, operation cannot be returned to the setting mode of any other item. When the SEARCH (SET) button is pressed upon completion of the setting, the change made to the previous setting for the item will be entered. On the other hand, when the DIAL MODE switch is set to SEARCH without pressing the SEARCH (SET) button first, all the settings including the one which was made previously will be canceled.

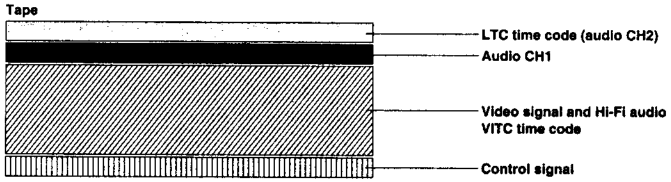
Time Code/user's bit

Time code

The "time code," which is based on the time code signal generated by the time code signal generator, recorded on tape, and read out by the time code signal reader, is used to display absolute positions on the tape in units of "hours:minutes:seconds:frames." Knowing an absolute position makes it possible to conduct editing accurately and search operations speedily.

There are two types of time codes: LTC (longitudinal time code) and VITC (vertical interval time code). The LTC is recorded on the tape's normal audio CH2 track. It is used to record the position information on the tape and user's bit information.

The VITC is recorded in the vertical blanking period of the video signals so that even without using the normal audio CH2 track, it is used to record the information regarding position on the tape and user's bit information.



The time code itself is indicated on the display and superimposed on the TV monitor.

LTCR 00:07:04:24

Time code mode — Hours — Minutes — Seconds — Frames

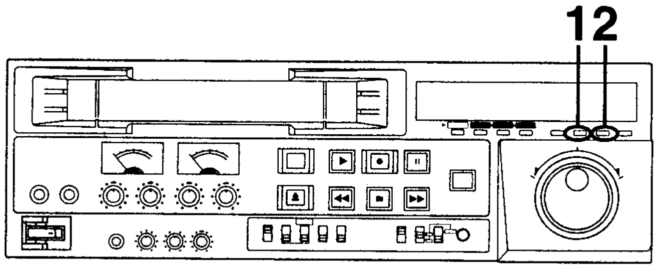
User's bit

Among the time code signals, the "user's bit" is an information released to the user. It is used to record the operator number or real time.

LUBR AB CD EF 88

A total of 16 characters—numbers 0 to 9, A, B, C, D, E and F—can be used for the user's bit.
(The characters "B" and "D" are displayed in small letters in the counter display.)

Setting the time code switches



1. Setting the CTL/TC/UB button

This selects the time code mode which is indicated on the display.

CTL: The CTL (control) signal value is indicated.
TC: The time code value is indicated.
UB: The user's bit value is indicated.

CTL/TC/UB

2. Setting the LTC/AUTO/VITC button

This selects the read out mode of the time code.

LTC: The LTC time code signal recorded on linear track CH2 is read out.
AUTO: AUTO: Priority is given to reading out the VITC signal when in the slow mode, and to reading out the LTC signal at all other times.
VITC: VITC: Only the VITC signal is read out.

- Interpolation is provided by the CTL signal when it is no longer possible to read out the time code signal in any of the modes.

LTC/AUTO/VITC

3. Settings with the dial menu functions

The time code set-up can be performed using dial menu function item No. 7001 to 7009. (See page E-40, E-41.)
The preset values for the time code and user's bit can be set using dial menu function item No. 7010 and 7011.

Recording the time code/user's bit

1. Recording the optional (preset) time code/user's bit

[1] **Set the "TC INT/EXT SELECT" (item No. 7001) dial menu function to "INT." (See page E-40.)**

[2] **Set the "TC MODE" (item No. 7002) dial menu function to "REC RUN." (See page E-40.)**

[3] **Set the preset value using dial menu function item No. 7010 or No. 7011. (See page E-41.)**

- Set the "AUDIO CH2" (item No. 3006) dial menu function to "AUDIO" when the LTC time code is not to be recorded. (See page E-36.)
- Set the "VITC REC" (item No. 7003) dial menu function to "OFF" when the VITC time code is not to be recorded. (See page E-40.)

……

2. Recording the continuous time code on the editing tape

[1] **Set the "TC INT/EXT SELECT" (item No. 7001) dial menu function to "INT." (See page E-40.)**

[2] **Set the "TC MODE" (item No. 7002) dial menu function to "REGEN." (See page E-40.)**

- Set the "AUDIO CH2" (item No. 3006) dial menu function to "AUDIO" when the LTC time code is not to be recorded. (See page E-36.)
- Set the "VITC REC" (item No. 7003) dial menu function to "OFF" when the VITC time code is not to be recorded. (See page E-40.)

……

3. Dubbing the LTC signal recorded on the tape (Dubbing the LTC signal with the settings below prevents deterioration in the LTC time code signal.)

[1] **Set to "LTC" mode with the LTC/AUTO/VITC button. (See page E-43.)**

[2] **Set to "TC" mode with the CTL/TC/UB button. (See page E-43.)**

[3] **Set the "TC MODE" (item No. 7002) dial menu function to "REGEN." (See page E-40.)**

[4] **Set the "TC OUT SIGNAL REGEN" (item No. 7008) dial menu function to "REGEN." (See page E-40.)**

……

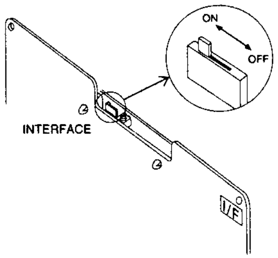
Setting the time code board switch

ALL DEL switch

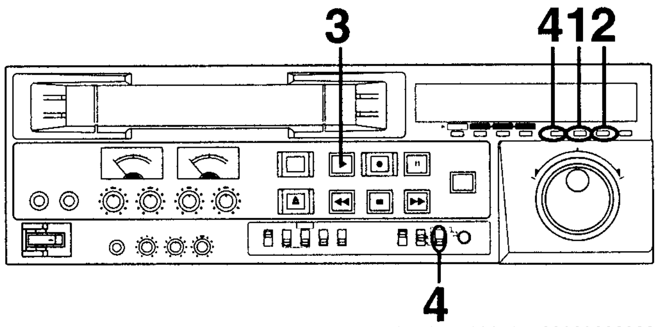
This selects the lines, where the VITC can be inserted for the input video signals, which are to be deleted during VITC recording.

ON (factory setting): All the lines (7 to 22) where the VITC can be inserted for the input video signals are deleted.

OFF : Only two lines where the VITC is inserted for the input video signals are deleted.



Playing back the time code/user's bit



……

1. Set to TC or UB mode with the CTL/TC/UB button.

CTL/TC/UB

TC: For time code playback.
UB: For user's bit playback.

……

2. Set the LTC/AUTO/VITC button.

LTC/AUTO/VITC

LTC: The LTC time code signal recorded on linear track CH2 is read out.
AUTO: Priority is given to reading out the VITC signal when in the slow mode, and to reading out the LTC signal at all other times.
VITC: Only the VITC signal is read out.

- Interpolation is provided by the CTL signal when it is no longer possible to read out the time code signal in any of the modes.

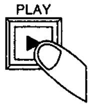
……

3. Press the PLAY button.

Display

00:01 00 02

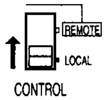
☐ Interpolation by CTL signal



……

4. To check the VITC insertion lines during playing back.

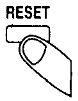
Set the CONTROL Switch to "REMOTE" and press the RESET button.



Display

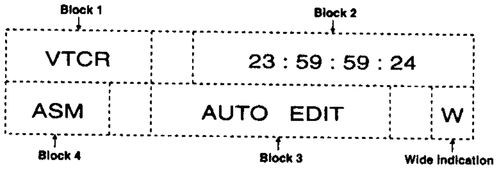
16 · 18 L

(When VITC is inserted in line 16 and 18.)



Superimpose screen

When the ON SCREEN switch in the front pocket is set to ON, the superimpose signal listed below are added to the signals output from the VIDEO MONITOR connector.
The superimpose display does not appear in the dial menu mode.



Block 1

The time code modes are abbreviated on the display using the following characters.

CTL:	Control signal
TCG:	Time code generator value
LTCR:	Playback value of LTC time code
VTCR:	Playback value of VITC time code
ETCG:	External time code generator value
LUBG:	Generator value of LTC user's bit
VUBG:	Generator value of VITC user's bit
LUBR:	Playback value of LTC user's bit
VUBR:	Playback value of VITC user's bit
EUBG:	Generator value of external user's bit

Block 2

The time code value is indicated in hours, minutes, seconds and frames, each with 2 digits.
(In the UB mode, no colon is displayed.)

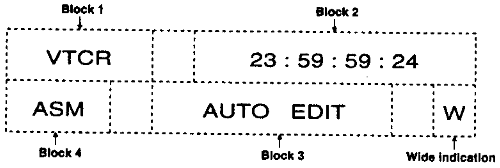
12:34:43:21

[ ] = Time code reading disabled

Block 3

The VTR operating modes are indicated as below.

EJECT (eject)
PLAY (playback)
REC (recording)
STOP (stop)
FF (fast forward)
REW (rewind)
STILL (pause)
EDIT (editing)
EPLY (edit play)
READY-OFF (ready mode release)



Block 3 *(cont.)*

The search is also displayed.

JOG xxxxx (jog)
SHTL xxxxx (shuttle)

"xxxxx" denotes the search speed.

−1/25 Tape speed (in this case, search proceeds in the reverse direction at 1/25x normal playback speed)

***: Forward direction/-:reverse direction**

Block 4 (AG-7700 only)

The edit modes are indicated as follows.

ASM (Assemble)
V12 (Insert): VIDEO, AUDIO-CH1, AUDIO-CH2

NOTE

- The block 3, 4 display and wide indication appears only when the "STATUS SUPER" dial menu function (item No. 4004) is set to ON.

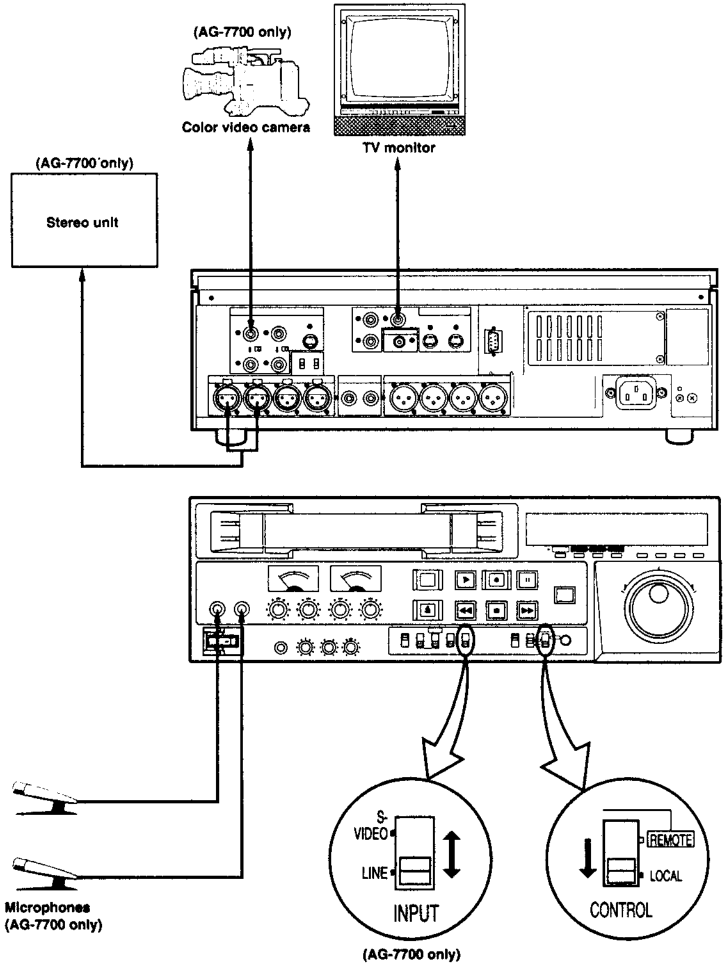
REFERENCE

- The superimpose display characters can be changed using the dial menu function (item No. 4001). (See page E-37.)
- The superimpose display position can be moved using the dial menu function (item No. 4002, 4003). (See page E-37.)

Connections for basic system

These connections are for editing using one S-VHS VTR.

- Set the CONTROL switch to LOCAL.
- Set the "SYNC" (item No. 1001) dial menu function to "NORM".
- Set the "AUDIO CH2" (item No. 3006) dial menu function to "AUDIO". (Set to LTC for editing with the LTC time code signal.)


(AG-7700 only)
Color video camera
TV monitor
(AG-7700 only)
Stereo unit
Microphones
(AG-7700 only)
S-VIDEO
LINE
INPUT
(AG-7700 only)
REMOTE
LOCAL
CONTROL

Dubbing connections

These connections are for editing using two S-VHS VTRs.
The ways to prevent deterioration in the picture quality caused by the dubbing connections are ranked as follows in terms of their effectiveness.

1. Use of S-VIDEO cable
2. Use of BNC cable

- Set the CONTROL switch to LOCAL.
- Set the "AUDIO CH2" (item No. 3006) dial menu function to "AUDIO". (Set this to "TIME CODE" when dubbing LTC time code signals.)
- Set the "IMAGE MODE SELECT" (item No. 2001) dial menu function to "EDIT".

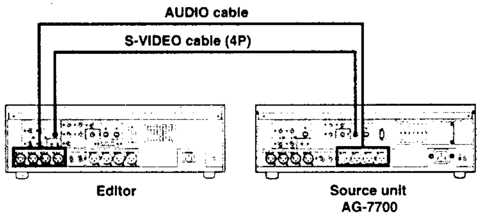
1. Connections using S-VIDEO cable (4P)

Main setting (source unit)

- Dial menu function "SYNC" (item No. 1001) to "NORMAL"
- Dial menu function "IMAGE" (item No. 2001) to "EDIT"

Main setting (editor)

- INPUT switch to "S-VIDEO"
- Dial menu function "SYNC" (item No. 1001) to "NORMAL"
- Dial menu function "IMAGE MODE SELECT" (item No. 2001) to "EDIT"


AUDIO cable
S-VIDEO cable (4P)
Editor
Source unit
AG-7700

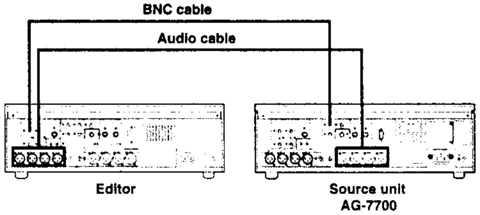
2. Connections using BNC cable.

Main setting (source unit)

- Dial menu function "SYNC" (item No. 1001) to "NORMAL"
- Dial menu function "IMAGE MODE SELECT" (item No. 2001) to "EDIT"

Main setting (editor)

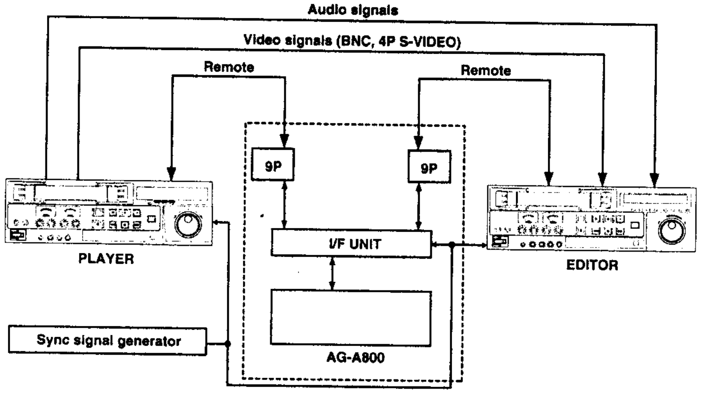
- INPUT switch to "LINE"
- Dial menu function "SYNC" (item No. 1001) to "NORMAL"
- Dial menu function "IMAGE MODE SELECT" (item No. 2001) to "EDIT"


BNC cable
Audio cable
Editor
Source unit
AG-7700

System using 9P editing controller

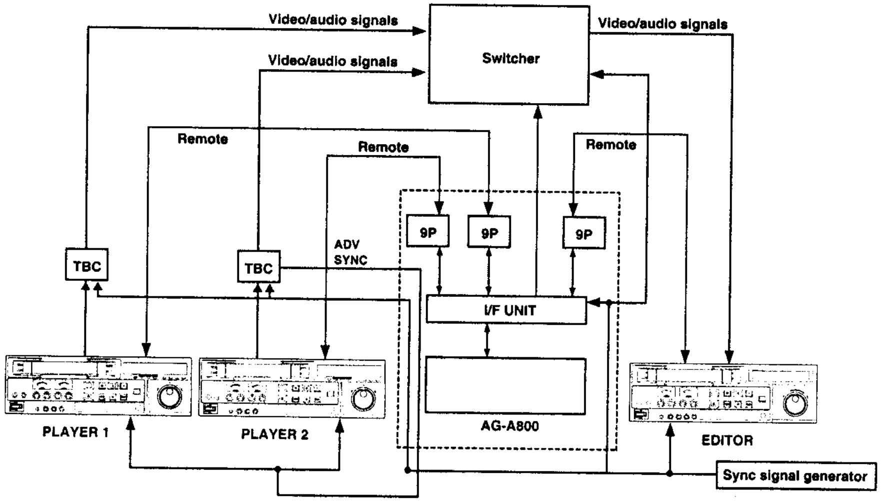
Editing with a high degree of accuracy and with almost no editing errors can be done and using the 9P editing controller (optional accessory) to conduct time code editing.

System composed of one editor and one player


Audio signals
Video signals (BNC, 4P S-VIDEO)
Remote
Remote
9P
9P
I/F UNIT
AG-A800
PLAYER
EDITOR
Sync signal generator

System composed of one editor and two players

(enabling AB roll editing)


Video/audio signals
Video/audio signals
Video/audio signals
Switcher
Remote
Remote
Remote
ADV SYNC
9P
9P
9P
TBC
TBC
I/F UNIT
AG-A800
PLAYER 1
PLAYER 2
EDITOR
Sync signal generator

1. Connect the editing controller

- Connect it to REMOTE (9P) connector.
- Connect the audio signals.
- Connect the video signals.
- Connect the REF signals.

2. Set 9P DEVICE TYPE SELECT (item No. 5002).

Use the dial menu function to set this.

OTHER TYPES (set-up No. 00):	When using a controller not made by Panasonic
S-VHS ID (set-up No. 01):	When using a controller made by Panasonic

- Set to OTHER TYPES (SETUP NO. 00) when the AG-A800 (Ver. 2.00–2.52) is used.

3. Set the CONTROL switch to REMOTE.

4. Operate the unit from the editing controller.

For details on how to operate the editing controller, reference should be made to the Instruction Manual accompanying the controller.

- Set the editing timing to 8 frames when the AG-A800 (Ver. 1.00–2.52) is used.
- Set DIP switch 2-3 on the control panel to ON when the AG-A800 (Ver. 2.00–2.52) is used.

System using 9P editing controller

NOTES

- Set the editing timing for the 9P editing controller to 8 frames.
- When using an editing controller provided with a colour framing function, do not set the colour framing mode.
- Although, for insert editing using the 9P editing system, it is possible to set the editing channels independently for the time code signals and audio signals, this particular unit uses linear track CH2 for both the time code (LTC) and normal audio CH2. For this reason, the "AUDIO CH2" dial menu function (item No. 3006) must be set properly in accordance with the signals which are to be edited.
- For time code editing, set the "TC INT/EXT SELECT" dial menu function (item No. 7001) to "INT".
- When the 9P editing system is used, the "9P FF/REW MODE" dial menu function (item No. 5003) can be used to select full loading FF/REW and unloading FF/REW.
- Set the dial menu function (item No. 1003) "TAPE PROTECTION" to "AUTO ADVANCE" only when editing lengthy scenes during AB roll editing.
- For colour framing editing, be absolutely sure to set the SYNC selector on the editor to the NORMAL position. If, in a system in which the TBC is not connected to the player, the player is set to the search or jog mode at this time, the playback picture on the editor will be disturbed.

<Caution>

- Set the preroll time of the editing controller to "7 SEC".
- Use a colour framed tape in the editor unit.
- Use a colour programme tape in the source unit. This tape need not be colour framed.

Notes for Colour Framing

- When reviewing to check the Frame Editing after editing, the source unit is in the pause mode and the editor changes over to the internal synchronisation condition.
  Therefore, the Frame Lamp is off the whole time.
  Please check the colour framing at the Editing-In and -Out points in the review mode on the screen of the monitor.
- The following are remarks on the Colour Framing Editing, however, they do not matter in the ordinary editing system.

  Editing via Video Input Connector

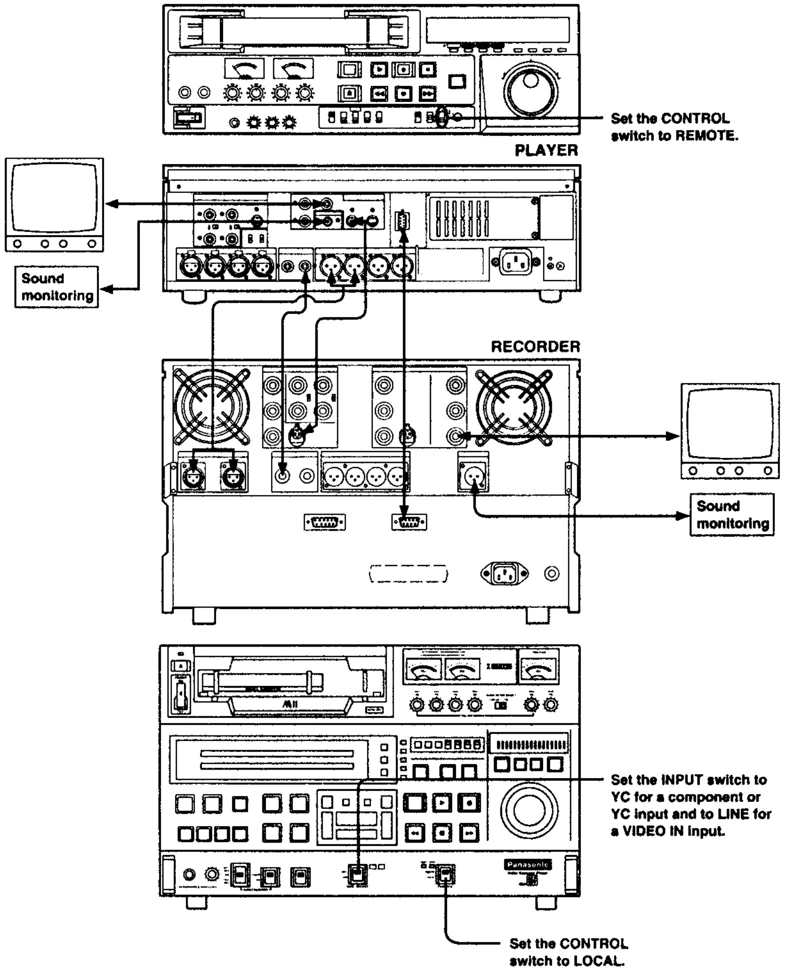
  1) The input video signal should be a CCIR standard PAL colour signal.
  2) Set the preroll time of the Controller to 7 seconds.
  3) The tape in the editor should be recorded by colour framing the CCIR standard PAL colour signal.
  4) Both tapes in the source and the editor should have continuity of the colour rotation in all editing sections.
     (There should not be any assemble or insert editing.)

  How to check whether colour framing was performed on a tape or not

  1) Insert the tape that you want to check into the AG-7700 and set the MENU function "Frame Servo" to "COLOUR FRAME".
  2) Input the standard CCIR PAL signal via the Video Input Connector and playback the tape.
  3) If the Frame Lock Lamp lights up, the recording on the tape is colour framed.

System using MII unit

This unit comes with an RS-422A interface facility which enables it to be connected with a professional/industrial MII VTR.



Set the CONTROL switch to REMOTE.

Set the INPUT switch to YC for a component or YC input and to LINE for a VIDEO IN input.

Set the CONTROL switch to LOCAL.

- The above system employs the model AU-65H MII VTR designed for commercial applications.

Error displays

When an error appears on the counter display, it means that a malfunction has occurred in the unit. When this happens, terminate operation without delay and remedy the trouble by following the instructions in the Instruction Manual.

Error display	Problem	Remedy
d	Condensation	Leave power on and wait until error display is cleared (see MEMO below).
E - 2	Malfunction in elevator section	This occurs when the cassette has not been inserted properly. Turn off the power and switch it back on again, and check that the unit operates normally.
E - 3	Malfunction in loading section	
E - 4	Malfunction in cylinder section	This occurs when a heavy load is applied because condensation has formed on the tape or for some other reason. Turn off the power and switch it back on again, and check that the unit operates normally.
E - 5	Malfunction in reel section	
E - 6	Malfunction in tension section	
E - 7	Malfunction in solenoid section	Turn off the power and switch it back on again, and check that the unit operates normally.

- Contact your authorized dealer if the unit does not function normally when the above remedial action has been taken.

MEMO

Condensation

This phenomenon is caused by the same principle under which droplets of moisture (condensation) form on a window in a heated room when it is cold outside. It can occur when the unit or a tape is moved a location with a significantly different temperature or humidity. It also occurs:

- When the unit or tape is moved to a location full of steam which cannot escape or a location with a high humidity, or immediately after movement to a heated room
- When the unit or tape is moved quickly from a cold or cooled location to a high-temperature and/or high-humidity location

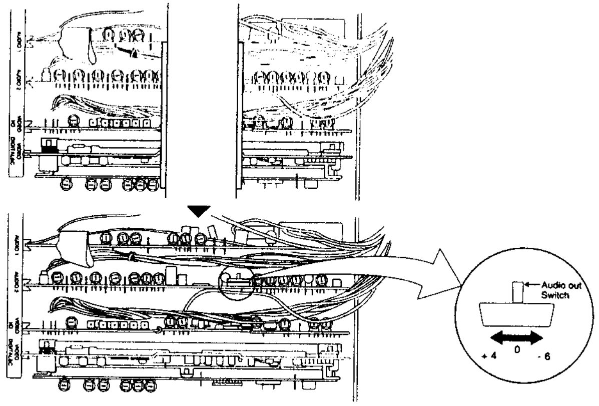
SHOULD A MALFUNCTION OCCUR, TURN OFF THE POWER IMMEDIATELY, TAKE HOLD OF THE POWER PLUG AND DISCONNECT IT FROM THE POWER SOCKET AND CONTACT YOUR DEALER. CONTINUED USE MAY CAUSE FURTHER DETERIORATION OR LEAD TO AN ACCIDENT.

Troubleshooting

Should trouble occur, check out the items listed below and make the recommended adjustments. If the trouble should persist, consult with your dealer.

Symptom	Inspection/adjustment	Ref.
No power.	■ Is power cord disconnected?	—
No operation even when function button is pressed.	■ Error on counter display? ■ CONTROL switch on REMOTE? ■ Search dial mode switch on MENU?	E-54 E-23 E-31
No tape fast forwarding or rewinding.	■ Has tape come to end after fast forwarding or rewinding? ■ Memory switch at AUTO STOP?	— E-20
No recording or editing. (AG-7700 only)	■ Cassette tab broken out? ■ Correct setting for input switch?	E-13 E-23
Playback accompanied by noise.	■ "IMAGE MODE SELECT" dial menu function set to "EDIT"? ■ Dirty video head?	E-35 E-60
Striping appears on part of picture during normal playback.	■ Has tracking been adjusted properly?	E-17
No colour on playback pictures.	■ Has colour mode been set to B/W mode by dial menu function?	E-35
Disturbances affect playback picture at regular intervals.	■ Is vertical sync of TV monitor adjusted properly? ■ Strong fluctuations in supply voltage during recording? ■ Is cassette tape acceptable?	— — —

Setting the audio switches



The AUDIO OUT level can be selected using the switch on the AUDIO2 circuit board (located below the board's *metal clamp*).

Servo reference

This unit automatically selects the input video signal selected by the INPUT switch (AG-7700 only), the EXT VIDEO signal supplied from the EXT IN connector or the internal sync signal (INT) as the servo reference signal. The relationship between the "SYNC" dial menu function (item No. 1001) and servo reference signal during normal playback and recording is as described below.

■ **During playback or search**

DIAL MENU FUNCTION ITEM No. 1001	Input signal mode		Reference signal
	VIDEO IN signal (AG-7700 only)	EXT IN signal	
NORMAL	○	○	EXT IN signal
	○	×	INT sync signal
	×	○	EXT IN signal (AG-7700 only)
	×	×	INT sync signal (AG-7700 only)
EXT	○	○	EXT IN signal
	○	×	INT sync signal
	×	○	EXT IN signal (AG-7700 only)
	×	×	INT sync signal (AG-7700 only)

■ **During editing or recording**

DIAL MENU FUNCTION ITEM No. 1001	Input signal mode		Reference signal
	VIDEO IN signal (AG-7700 only)	EXT IN signal	
NORMAL	○	○	VIDEO IN signal
	○	×	VIDEO IN signal (AG-7700 only)
	×	○	EXT IN signal (AG-7700 only)
	×	×	INT sync signal (AG-7700 only)
EXT	○	○	EXT IN signal
	○	×	INT sync signal
	×	○	EXT IN signal (AG-7700 only)
	×	×	INT sync signal (AG-7700 only)

"O": signal is supplied; "X": signal is not supplied.

Connector signals

REMOTE 9P connector

Pin no.	Description of signal
1	GND
2	TRANSMIT A
3	RECEIVE B
4	RECEIVE COMMON
5	SPARE
6	TRANSMIT COMMON
7	TRANSMIT B
8	RECEIVE A
9	GND

S-VIDEO IN/OUT connectors (4P)

Pin no.	Description of signal
1	Y GND
2	C GND
3	Y signal
4	C signal

AUDIO IN/OUT connectors (XLR)

Pin no.	Description of signal
1	GND
2	HOT
3	COLD

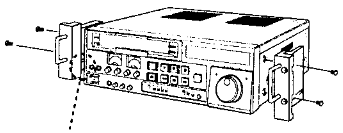
Rack Mount Adaptor (Option)

The Rack Mount Adaptor AG-M730-E is used to mount the unit on the IEC standard rack.

Installation of the AG-M730-E

1. Remove the 4 screws

from the side cabinet of the unit.



2. Use the 4 screws supplied

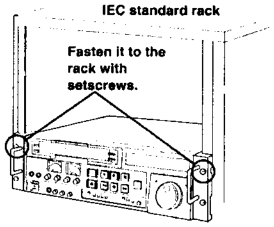
with the AG-M730-E to install to the unit.

Install it with the notch down

Mounting on the IEC standard rack

1. Remove the 4 rubber legs

from the bottom of the unit.

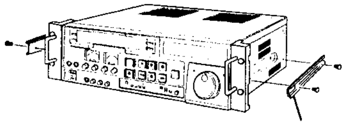


2. Mount the unit on the rack.

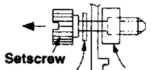
- Be sure to install a ventilation fan (air volume of about 3.3 m 2/sec.) on the top of the rack.

Installation of slide rails

- Use a complete slide rail and bracket unit for 457 mm length (part No. CC3004-99-0017) or 610 mm length (part No. CC3004-99-0018) of Chassis Track. (The complete slide rail and bracket unit is not available from Panasonic.)



- When using the slide rail, remove the setscrews. The setscrews can be removed by pulling in the direction of the arrow. Keep the removed setscrews, washers and spacers in a proper place.
  - For the details, contact your authorized service personnel.



SECTION 2

DISASSEMBLY PROCEDURE

CONTENTS

2-1. DISASSEMBLY FLOWCHART ······ 2-2

2-2. DETAILED DISASSEMBLY METHOD ······ 2-3

2-2-1. REMOVAL OF THE TOP PANEL ······ 2-3
2-2-2. REMOVAL OF THE SIDE PANELS ······ 2-3
2-2-3. REMOVAL OF THE BOTTOM PLATE ······ 2-3
2-2-4. REMOVAL OF THE REAR PANEL ······ 2-3
2-2-5. REMOVAL OF THE 9PIN CONNECT C.B.A. ······ 2-4
2-2-6. REMOVAL OF THE REAR AMP C.B.A. ······ 2-4
2-2-7. REMOVAL OF THE XLR F C.B.A. AND XLR M C.B.A. ······ 2-4
2-2-8. REMOVAL OF THE REAR JACK C.B.A. ······ 2-4
2-2-9. REMOVAL OF THE FRONT PANEL ······ 2-5
2-2-10. REMOVAL OF THE FRONT, FRONT LED AND KEYBOARD C.B.A. 2-5
2-2-11. REMOVAL OF THE AUDIO METER UNIT ······ 2-6
2-2-12. REMOVAL OF THE MIC JACK C.B.A. ······ 2-6
2-2-13. REMOVAL OF THE HEAD AMP C.B.A. ······ 2-6
2-2-14. REMOVAL OF THE POWER UNIT ······ 2-6
2-2-15. REMOVAL OF THE POWER CONNECTION C.B.A. ······ 2-7
2-2-16. REMOVAL OF THE VIDEO Y/C, VIDEO I/O,
AUDIO (1) AND AUDIO (2) C.B.A. ······ 2-7
2-2-17. REMOVAL OF THE INTERFACE C.B.A. ······ 2-7
2-2-18. REMOVAL OF THE SERVO & SYSTEM CONTROL C.B.A. ······ 2-7
2-2-19. REMOVAL OF THE MOTHER C.B.A. ······ 2-8
2-2-20. REMOVAL OF THE REEL DRIVE C.B.A. ······ 2-8
2-2-21. REMOVAL OF THE CASSETTE COMPARTMENT ······ 2-8

SCREWS ······ 2-10

NOTE

DISASSEMBLY PROCEDURES ARE BASED ON AG-7700.

2-1. DISASSEMBLY FLOWCHART

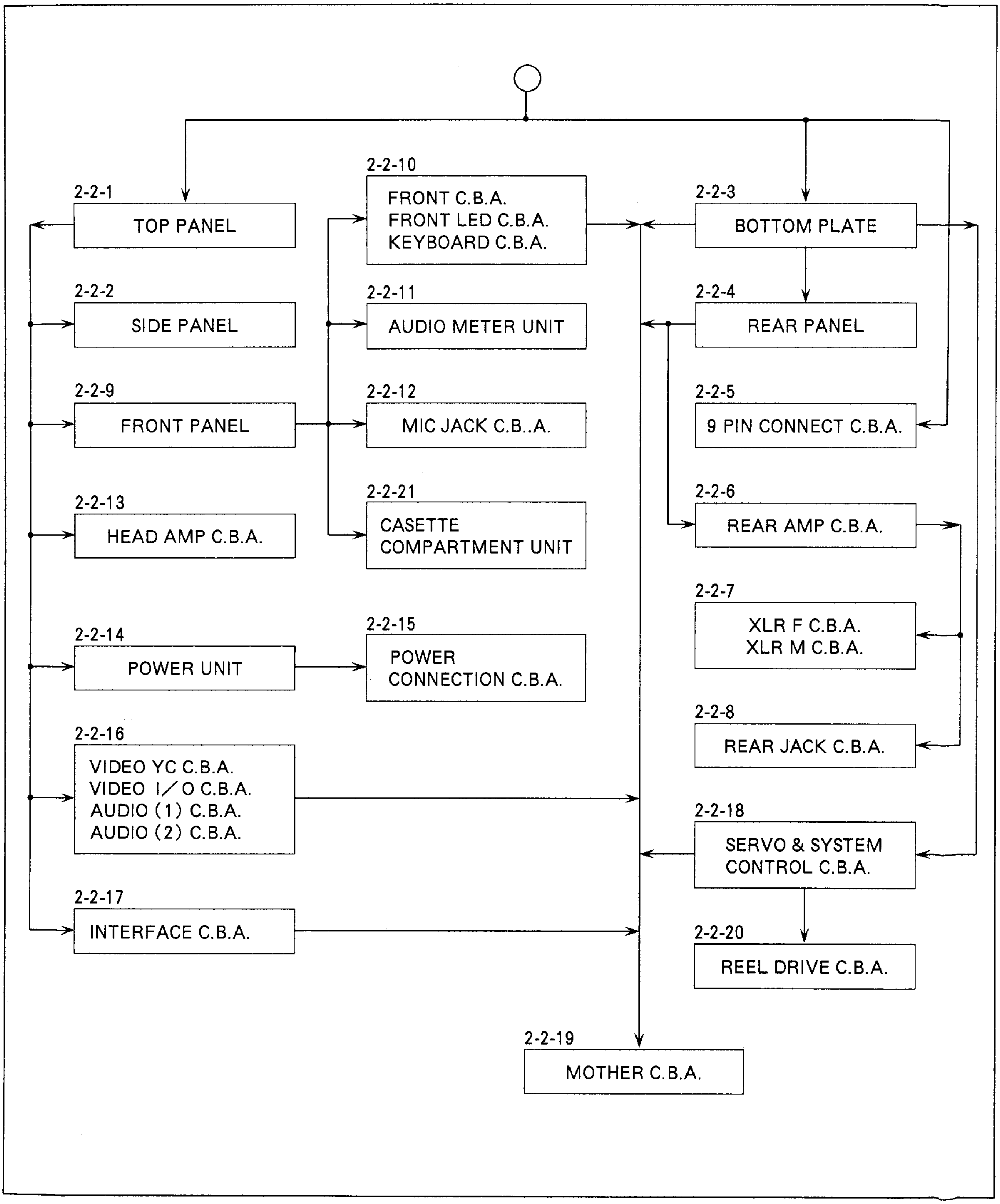

2-2-1
TOP PANEL
2-2-2
SIDE PANEL
2-2-9
FRONT PANEL
2-2-13
HEAD AMP C.B.A.
2-2-14
POWER UNIT
2-2-16
VIDEO YC C.B.A.
VIDEO I/O C.B.A.
AUDIO (1) C.B.A.
AUDIO (2) C.B.A.
2-2-17
INTERFACE C.B.A.
2-2-10
FRONT C.B.A.
FRONT LED C.B.A.
KEYBOARD C.B.A.
2-2-11
AUDIO METER UNIT
2-2-12
MIC JACK C.B..A.
2-2-21
CASETTE
COMPARTMENT UNIT
2-2-15
POWER
CONNECTION C.B.A.
2-2-19
MOTHER C.B.A.
2-2-3
BOTTOM PLATE
2-2-4
REAR PANEL
2-2-5
9 PIN CONNECT C.B.A.
2-2-6
REAR AMP C.B.A.
2-2-7
XLR F C.B.A.
XLR M C.B.A.
2-2-8
REAR JACK C.B.A.
2-2-18
SERVO & SYSTEM
CONTROL C.B.A.
2-2-20
REEL DRIVE C.B.A.

Figure D1

2-2. DETAILED DISASSEMBLY METHOD

2-2-1. REMOVAL OF THE TOP PANEL

1. Unscrew the 2 screws (A) on the Top Panel (Figure D2).
2. Carefully lift the rear of the case and side it off the back of the unit.

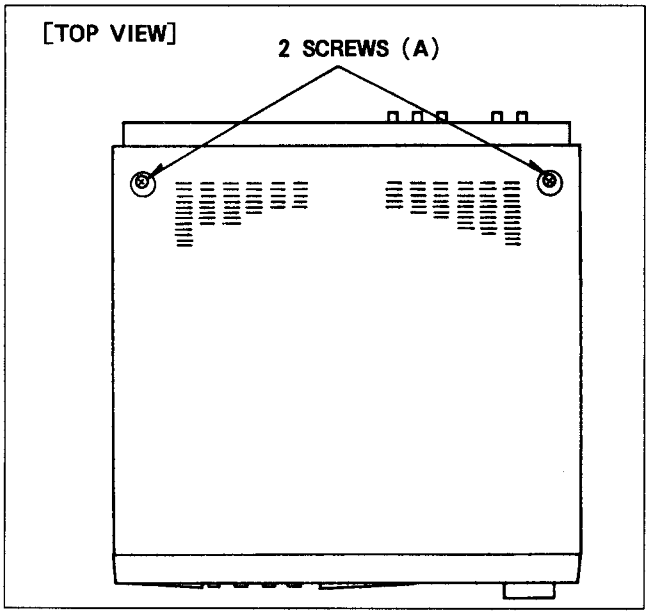

[TOP VIEW]
2 SCREWS (A)

Figure D2

2-2-2. REMOVAL OF THE SIDE PANELS

1. Unscrew the 8 screws (B) on the Side Panels. (Figure D3).
2. Lift the Side Panels.

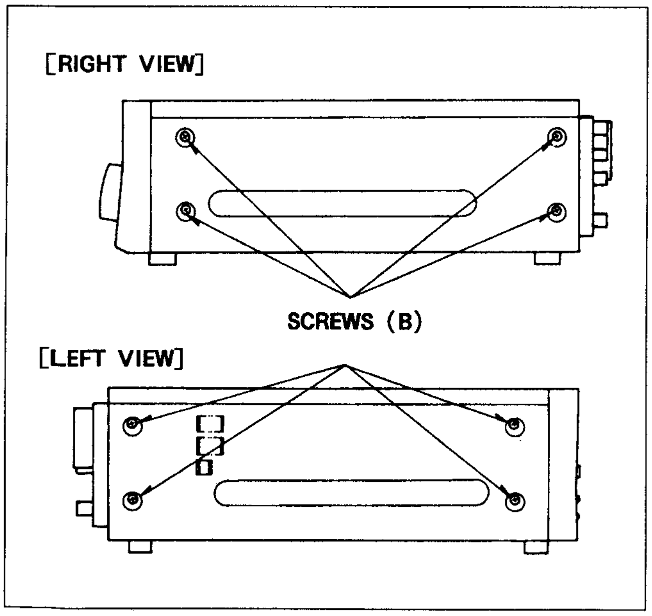

[RIGHT VIEW]
SCREWS (B)
[LEFT VIEW]

Figure D3

2-2-3. REMOVAL OF THE BOTTOM PLATE

1. Unscrew the 9 screws (C-1) and 3 screws (C-2)(Figure D4).
2. Lift the Bottom Plate.

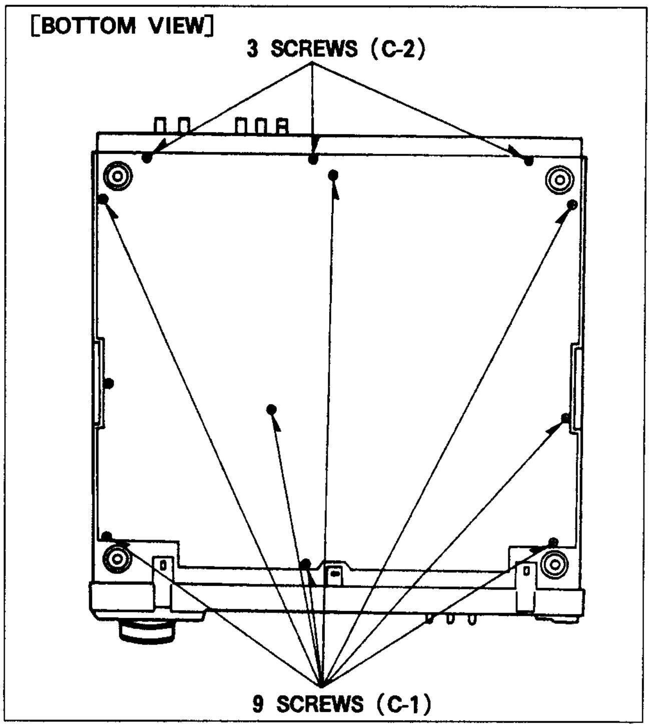

[BOTTOM VIEW]
3 SCREWS (C-2)
9 SCREWS (C-1)

Figure D4

2-2-4. REMOVAL OF THE REAR PANEL

1. Unscrew the 5 screws (D-1) and screw (D-2) on the Rear Panel (Figure D5).
2. Lift the Rear Panel and carefully pull the panel off the Unit (with taking care for the connection to the Mother C.B.A.).

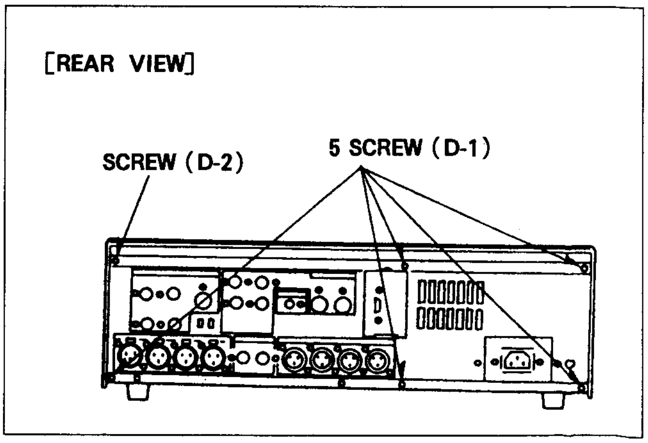

[REAR VIEW]
SCREW (D-2)
5 SCREW (D-1)

Figure D5

2-2-5. REMOVAL OF THE 9 PIN CONNECT C.B.A.

1. Unscrew a screw (E) on the 9 pin Connect C.B.A. (Figure D6).
2. Lift the 9 Pin Connect C.B.A. and pull out the connector (P69005)(Figure D7).

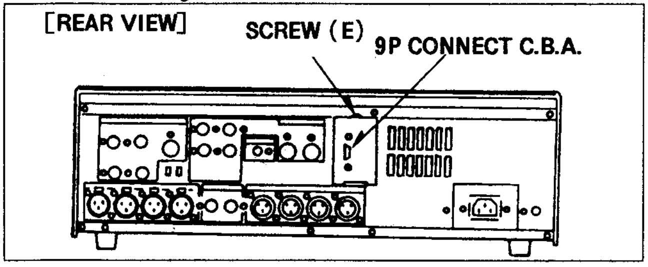

[REAR VIEW]
SCREW (E)
9P CONNECT C.B.A.

Figure D6

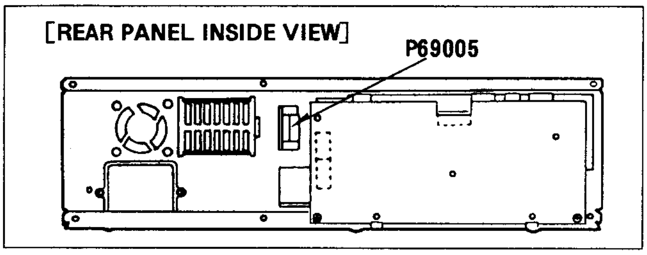

[REAR PANEL INSIDE VIEW]
P69005

Figure D7

2-2-6. REMOVAL OF THE REAR AMP C.B.A.

1. Unscrew the 2 screws (F) and unlock the 3 locking tabs (a) on the Rear Amp C.B.A. (Figure D8).
2. Lift the Rear Amp C.B.A. and then disconnect the 4 flexible cables (P6601, P6604, P6605 and P6608) and the 3 connectors (P4007, P4008, and P6607)(Figure D9).

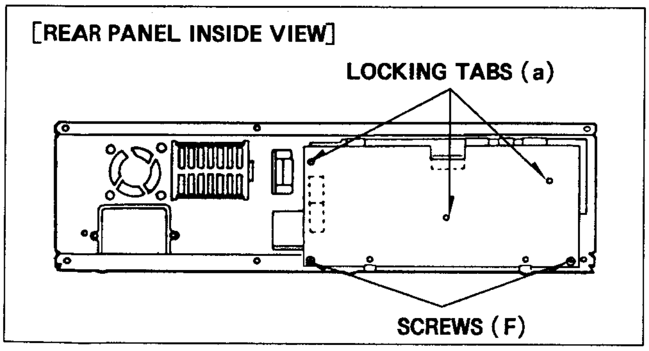

[REAR PANEL INSIDE VIEW]
LOCKING TABS (a)
SCREWS (F)

Figure D8

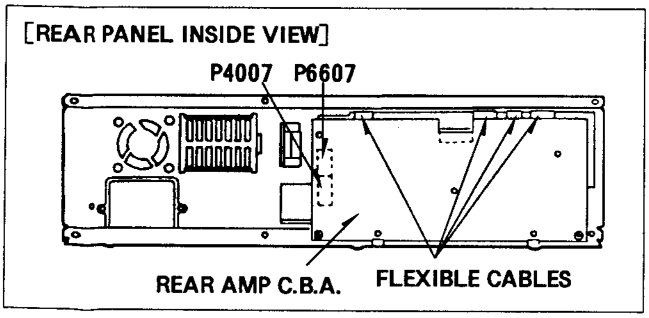

[REAR PANEL INSIDE VIEW]
P4007
P6607
REAR AMP C.B.A.
FLEXIBLE CABLES

Figure D9

2-2-7. REMOVAL OF THE XLR F C.B.A. AND XLR M C.B.A.

1. Unscrew the 8 screws (G-1) and remove the XLR F C.B.A. (Figure D10 and D11).
2. Unscrew the 8 screws (G-2) and remove the XLR M C.B.A. (Figure D10 and D11).

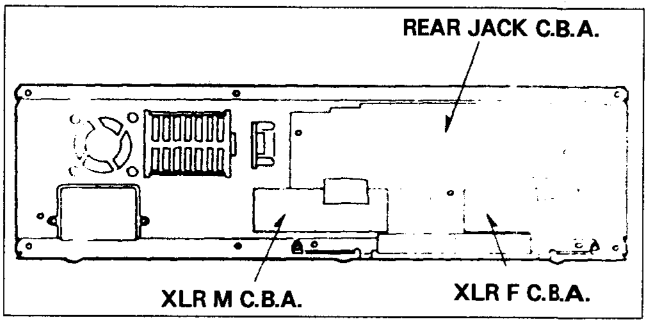

REAR JACK C.B.A.
XLR M C.B.A.
XLR F C.B.A.

Figure D10

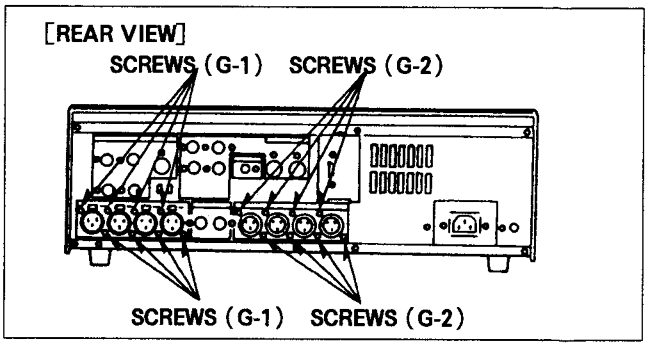

[REAR VIEW]
SCREWS (G-1)
SCREWS (G-2)
SCREWS (G-1)
SCREWS (G-2)

Figure D11

2-2-8. REMOVAL OF THE REAR JACK C.B.A.

1. Unscrew the 11 screws (H-1) and 4 screws (H-2)(Figure D10 And D12).
2. Lift the Rear Jack C.B.A.

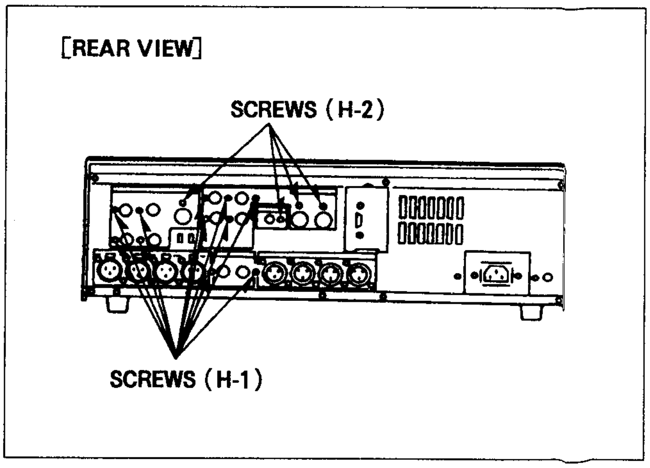

[REAR VIEW]
SCREWS (H-2)
SCREWS (H-1)

Figure D12

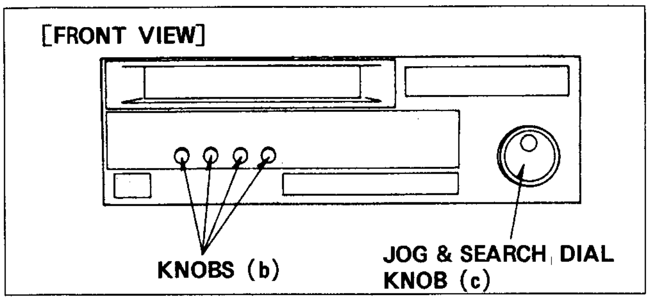

[FRONT VIEW]
KNOBS (b)
JOG & SEARCH DIAL KNOB (c)

Figure D13

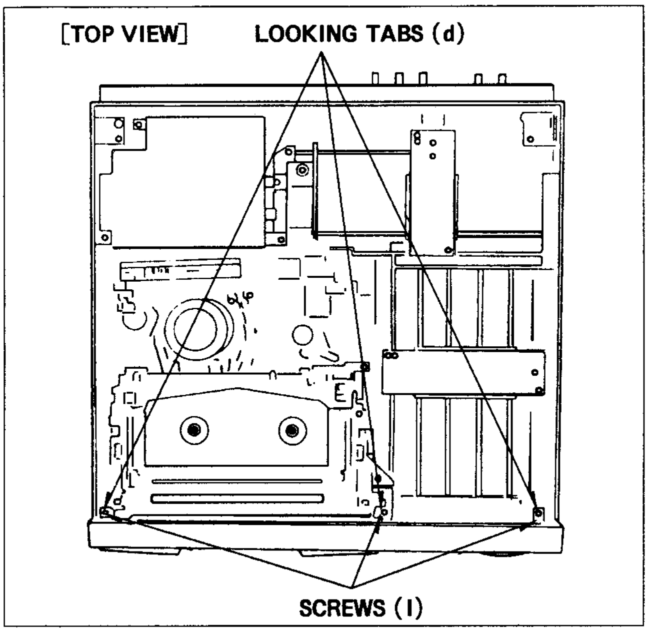

[TOP VIEW]
LOOKING TABS (d)
SCREWS (I)

Figure D14

2-2-9. REMOVAL OF THE FRONT PANEL

1. Pull out the 4 Knobs (b) on the Front Panel (Figure D13).
2. Pull out the Jog & Search Dial Knob (c) on the Front Panel (Figure D13).
3. Unscrew the 3 screws (I) on the top of the Front Panel and a screw (J) on the bottom of the Front Panel. (Figure D14 and Figure D15).
4. Unlock the 3 locking tabs (d) on the top of the Froont Panel and the 2 locking tabs (e) on the bottom of the Front Panel and then remove it. (Figure D14 and D15).

2-2-10. REMOVAL OF THE FRONT, FRONT LED AND KEYBOARD C.B.A.

1. Unscrew the 4 screws (K) on the Jog & Search Dial Unit and pull out a connector (P62005)(Figure D16).
2. Lift the Jog & Search Dial Unit.
3. Unscrew the 2 screws (L-1) and pull out the flexible cable (P62501)(Figure D17).
4. Lift the Front LED C.B.A.
5. Unscrew the 4 screws (L-2) and pull out the flexible cable (P62701)(Figure D17).
6. Lift the Keyboard C.B.A.
7. Unscrew a screw (M) and unlock the 3 locking tabs (f) on the Front C.B.A. (Figure D18).
8. Carefully pull the Front C.B.A. off the unit (with taking care for the connection to the Mother C.B.A.) and then disconnect the 2 connectors (P62007 and P62008)(FIgure D18).

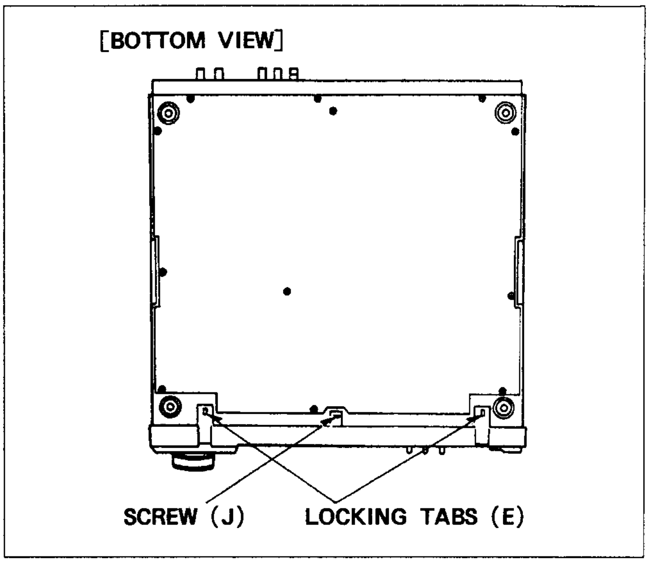

[BOTTOM VIEW]
SCREW (J)
LOCKING TABS (E)

Figure D15

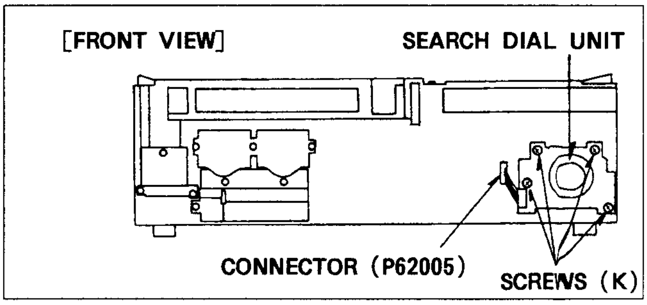

[FRONT VIEW]
SEARCH DIAL UNIT
CONNECTOR (P62005)
SCREWS (K)

Figure D16

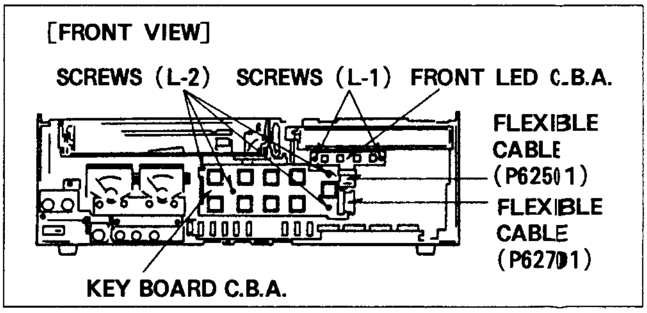

[FRONT VIEW]
SCREWS (L-2)
SCREWS (L-1)
FRONT LED C.B.A.
FLEXIBLE CABLE (P62501)
FLEXIBLE CABLE (P62701)
KEY BOARD C.B.A.

Figure D17

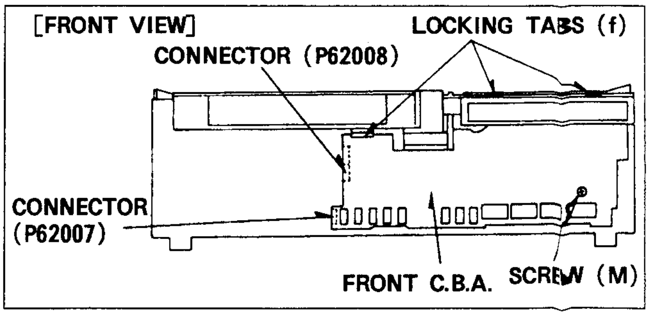

[FRONT VIEW]
LOCKING TABS (f)
CONNECTOR (P62008)
CONNECTOR (P62007)
FRONT C.B.A.
SCREW (M)

Figure D18

2-2-11. REMOVAL OF THE AUDIO METER UNIT

1. Unscrew the 6 screws (N) on the Audio Meter Unit (Figure D19).
2. Lift the Audio Meter Unit.

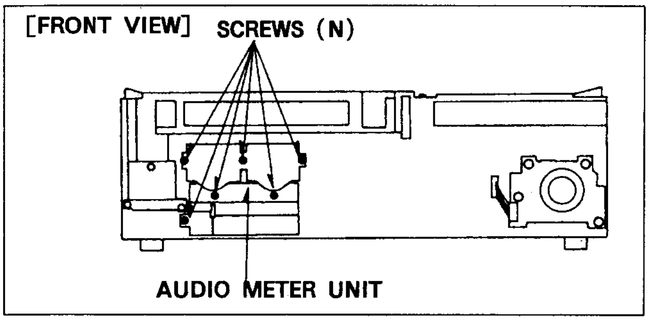

[FRONT VIEW]
SCREWS (N)
AUDIO METER UNIT

Figure D19

2-2-12. REMOVAL OF THE MIC JACK C.B.A.

1. Unscrew the 3 screws (O) on the MIC Jack C.B.A. (Figure D20).
2. Lift the MIC Jack C.B.A.

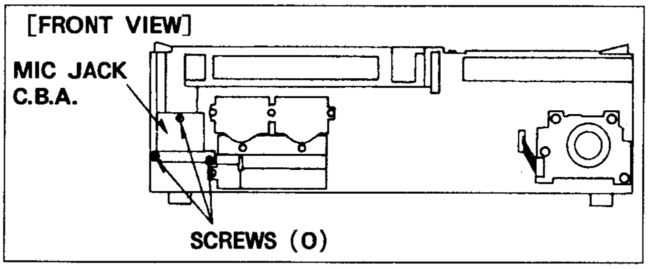

[FRONT VIEW]
MIC JACK C.B.A.
SCREWS (O)

Figure D20

2-2-13. REMOVAL OF THE HEAD AMP C.B.A.

1. Unscrew the 2 screws (P) on the Head Amp C.B.A. (Figure D21).
2. Carefully Pull out the Head Amp C.B.A.

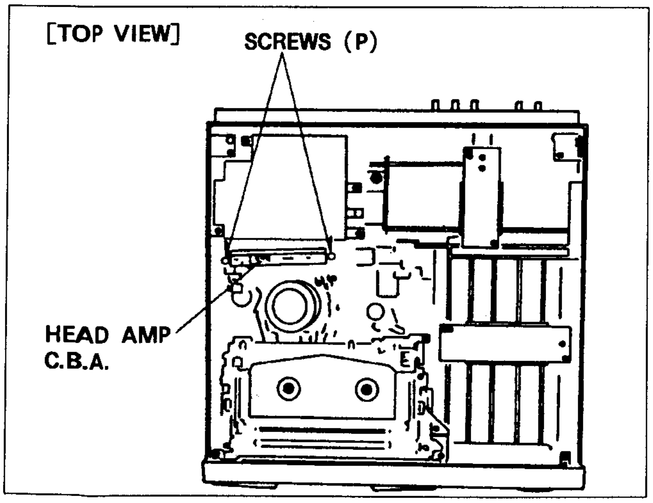

[TOP VIEW]
SCREWS (P)
HEAD AMP C.B.A.

Figure D21

2-2-14. REMOVAL OF THE POWER UNIT

1. Unscrew the 2 screws (Q-1) on the Heat Sink Cover (Figure D22).

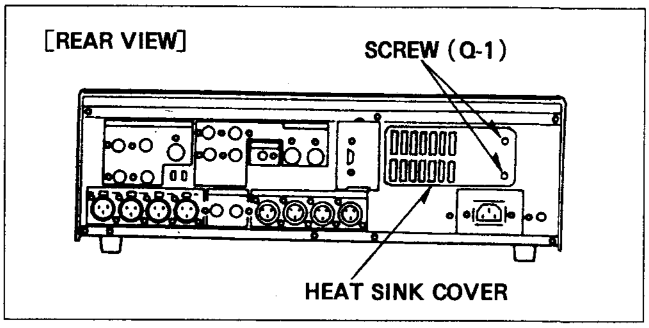

[REAR VIEW]
SCREW (Q-1)
HEAT SINK COVER

Figure D22

2. Unscrew the 2 screws (Q-2) on the Heat Sink (g)(Figure D23).
3. Unscrew the 4 screws(R-1) and screw (R-2) on the Power Unit (Figure D24).
4. Lift the Power Unit and then carefully pull out the 3 connectors (P1001, P1002 and P1003)(Figure D24).

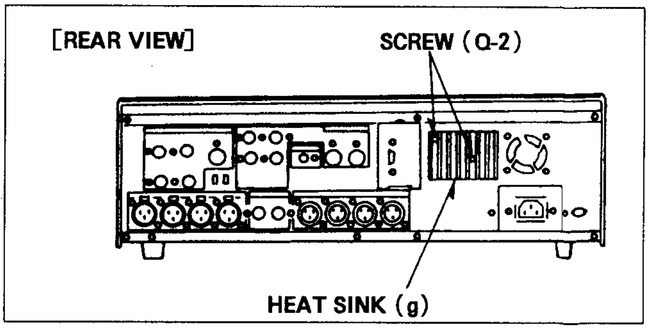

[REAR VIEW]
SCREW (Q-2)
HEAT SINK (g)

Figure D23

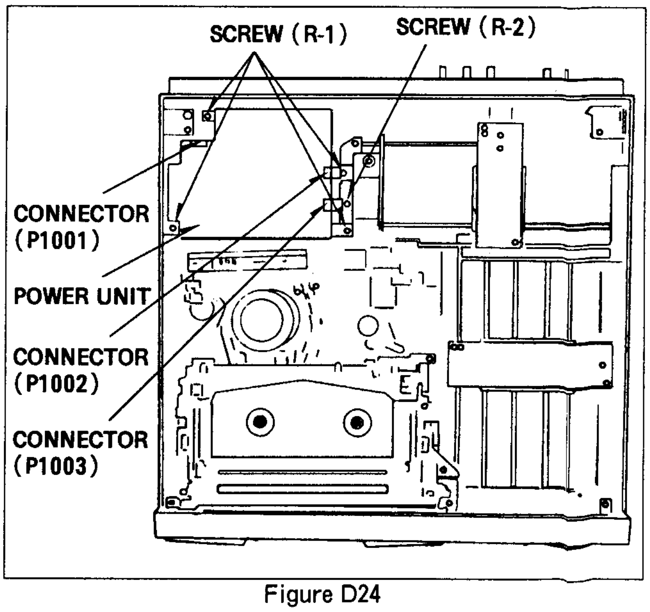

SCREW (R-1)
SCREW (R-2)
CONNECTOR (P1001)
POWER UNIT
CONNECTOR (P1002)
CONNECTOR (P1003)

Figure D24

2-2-15. REMOVAL OF THE POWER CONNECTION C.B.A.

1. Unscrew the (S) on the Rear Panel (Figure D25).
2. Unscrew the 4 screws (T-1) on the Power Connection C.B.A. and a screw (T-2) on the cabinet (Figure D26).
3. Carefully lift the Power Connection C.B.A. and then disconnect a connector (P1101)(Figure D26).

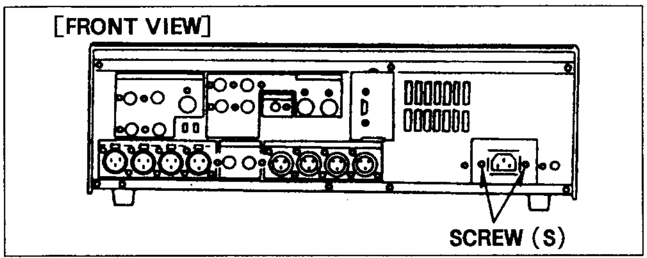

[FRONT VIEW]
SCREW (S)

Figure D25

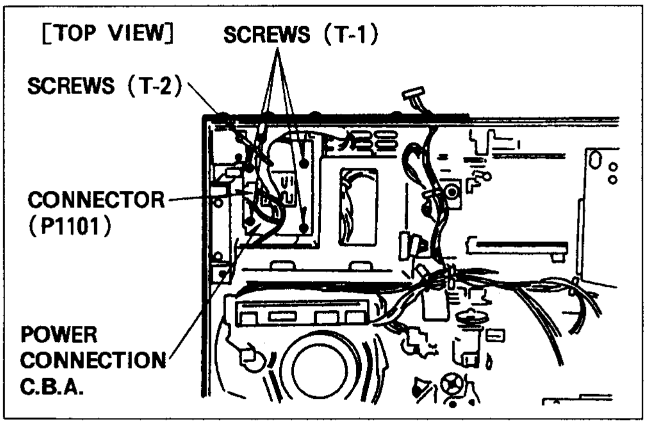

[TOP VIEW]
SCREWS (T-1)
SCREWS (T-2)
CONNECTOR (P1101)
POWER CONNECTION C.B.A.

Figure D26

2-2-16. REMOVAL OF THE VIDEO YC, VIDEO I/O, AUDIO (1) AND AUDIO (2) C.B.A.

1. Unscrew the 2 screws (U) and remove the C.B. Hold Piece A (Figure D27).
2. Carefully pull out the Video YC, Video I/O, Audio (1) and Audio (2) C.B.A. from Mother C.B.A. (Figure D27).

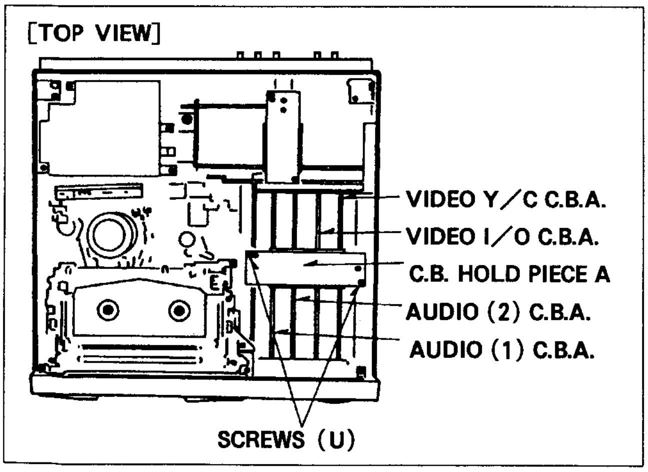

[TOP VIEW]
VIDEO Y/C C.B.A.
VIDEO I/O C.B.A.
C.B. HOLD PIECE A
AUDIO (2) C.B.A.
AUDIO (1) C.B.A.
SCREWS (U)

Figure D27

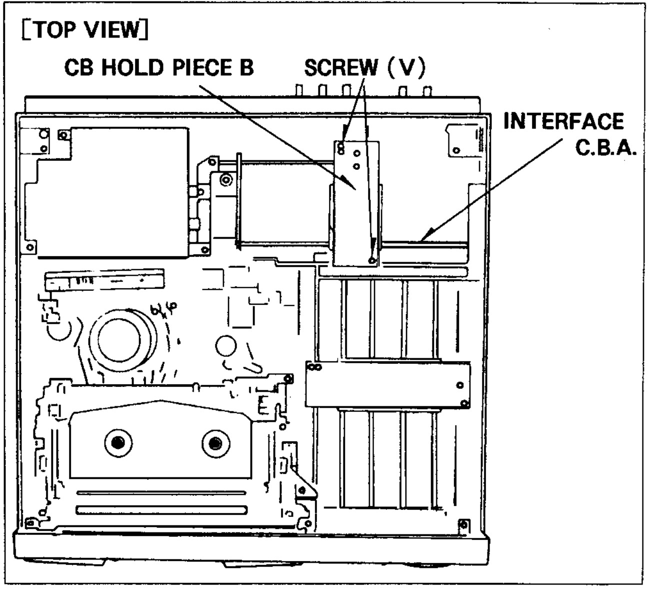

[TOP VIEW]
CB HOLD PIECE B
SCREW (V)
INTERFACE C.B.A.

Figure D28

2-2-17. REMOVAL OF THE INTERFACE

1. Unscrew the 2 screws (V) and remove the C.B. Hold Piece B (Figure D28).
2. Carefully pull out the Interface C.B.A. from Mother C.B.A. (Figure D28).

2-2-18. REMOVAL OF THE SERVO & SYSTEM CONTROL C.B.A.

1. Unscrew the 5 screws (W) on the Servo & System Control C.B.A. (Figure D29).
2. Unlock a locking tab (h) on the Servo & System Control C.B.A. (Figure D29).
3. Open the Servo & System Control C.B.A.
4. Disconnect the 2 flexible cables, the 3 flat cables and the all connectors from the Servo & System control C.B.A.
5. Carefully lift the Servo & system Control C.B.A. off the unit in direction indicated by arrow (with taking care for the connection to the Mother C.B.A.)(Figure D30).

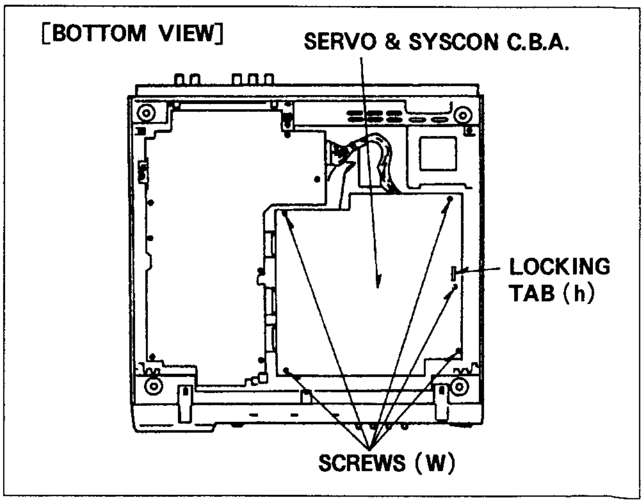

[BOTTOM VIEW]
SERVO & SYSCON C.B.A.
LOCKING TAB (h)
SCREWS (W)

Figure D29

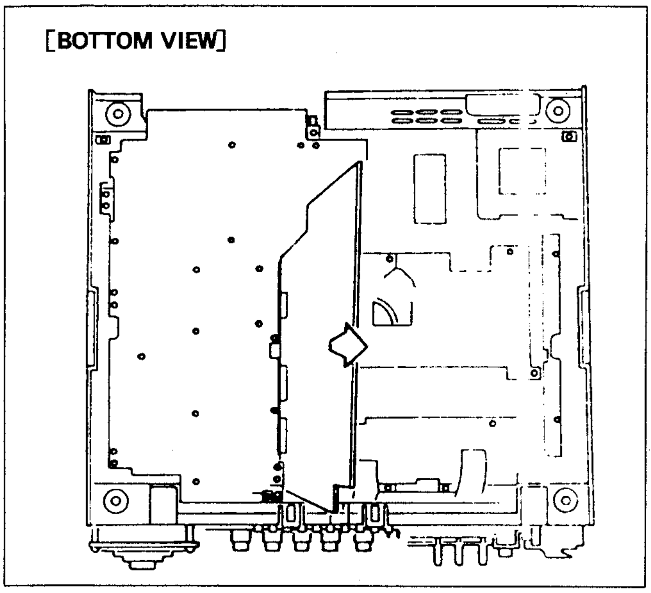

[BOTTOM VIEW]

Figure D30

2-2-19. REMOVAL OF THE MOTHER C.B.A.

Note:

Before removing the Mother C.B.A., be sure to remove the Rear Panel, Front C.B.A., Video YC C.B.A., Video I/O C.B.A., Audio (1) C.B.A., Audio (2) C.B.A., Interface C.B.A. and Servo & System Control C.B.A.

1. Unscrew the 8 screws (X) on the Mother C.B.A. (Figure D31).
2. Lift the Mother C.B.A. and then disconnect the 2 connectors (P910 and P951)(Figure D31).

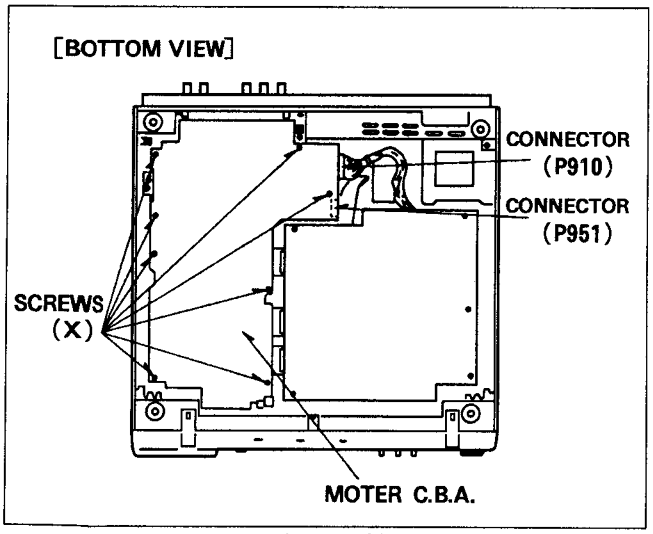

[BOTTOM VIEW]
CONNECTOR (P910)
CONNECTOR (P951)
SCREWS (X)
MOTER C.B.A.

Figure D31

2-2-20. REMOVAL OF THE REEL DRIVE C.B.A.

1. Unlock the 2 locking tabs (i) on the Reel Drive C.B.A. (Figure D32).
2. Disconnect the 3 Flexible Cables (P2701, P2704 and P2705) and a connector (P2702)(Figure D32).
3. Carefully pull the Reel Drive C.B.A. in the direction indicated by arrow (Figure D32).

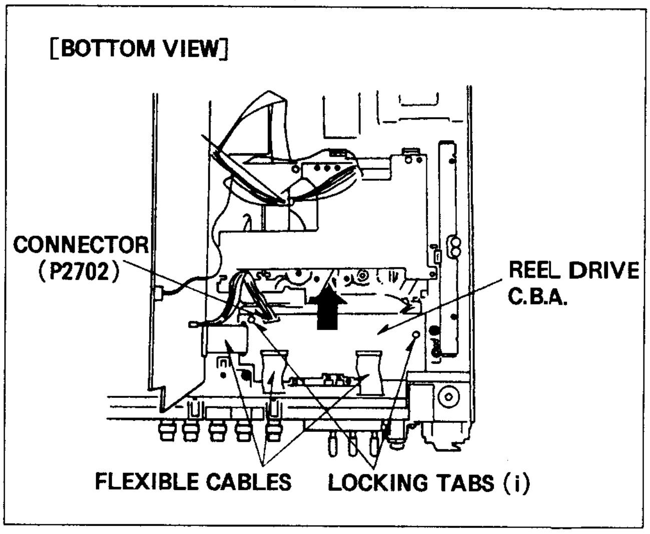

[BOTTOM VIEW]
CONNECTOR (P2702)
REEL DRIVE C.B.A.
FLEXIBLE CABLES
LOCKING TABS (i)

Figure D32

2-2-21. REMOVAL OF THE CASSETTE COMPARTMENT

1. Unscrew the 2 screws (Y-1) and a screw (Y-2)(Figure D33).
2. Disconnect 2 wires and 4 wiresfrom the connector (P1508) on the right side of the Cassette Compartment (Figure D33).
3. Remove the Top plate.
4. Remove a Cassette Holder Unit. (Figure D34).
5. Unscrew the 4 screws (Z) and remove the Cassette Compartment Unit (Figure D35).

Note:

When installing the Cassette Compartment Unit,refer to Mechanical Adjustment Procedures.

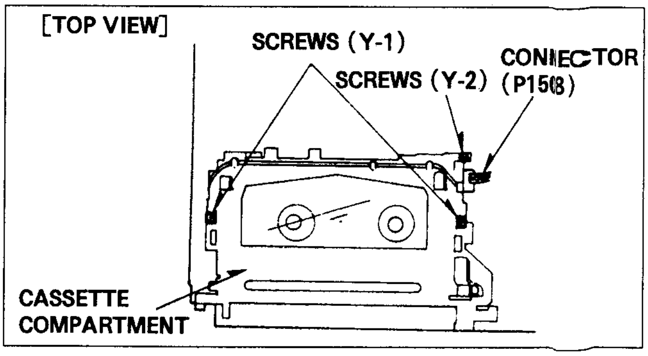

[TOP VIEW]
SCREWS (Y-1)
SCREWS (Y-2)
CONNECTOR (P1508)
CASSETTE COMPARTMENT

Figure D33

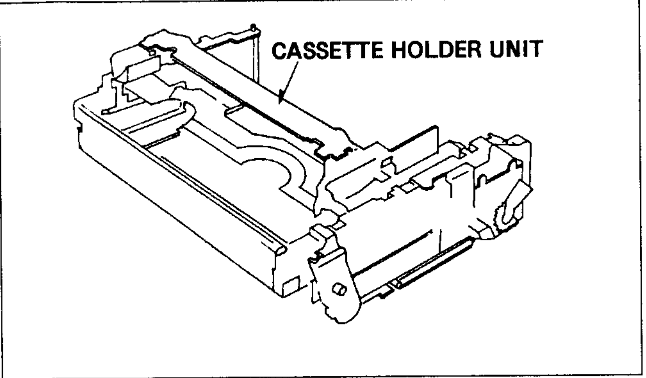

CASSETTE HOLDER UNIT

Figure D34

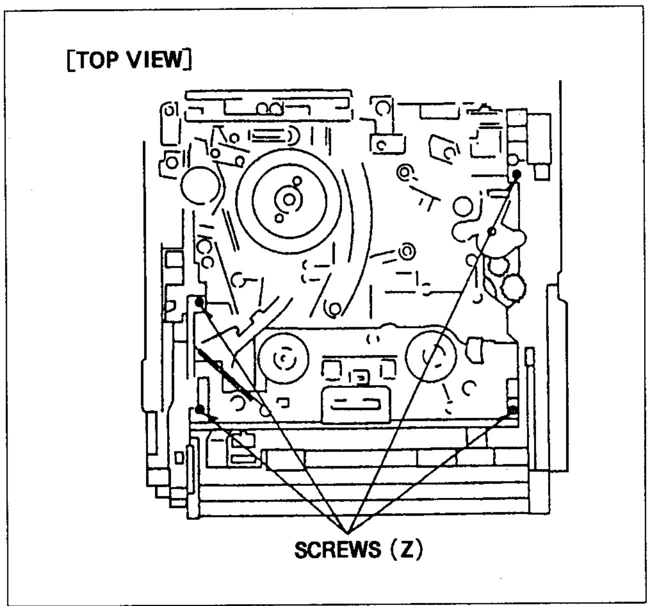
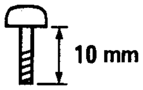
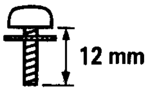
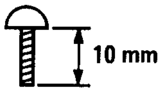
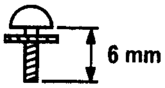
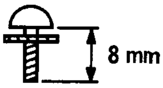
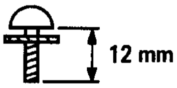
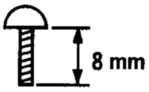
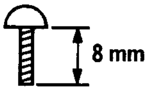
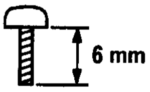
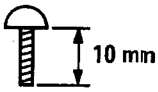
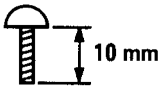
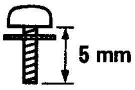
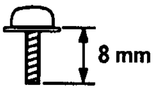
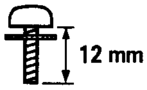
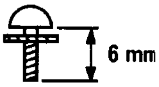
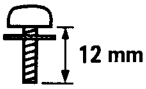
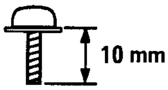
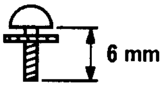
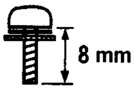
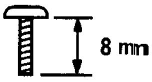
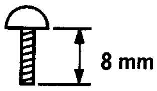
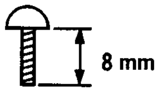

[TOP VIEW]
SCREWS (Z)

Figure D35

SCREWS

(A)  VHD0222 (SILVER)	(B)  VHD0426 (SILVER)	(C-1)  VHD0059 (GOLD)	(C-2)  XYE3＋EF6 (GOLD)	(D-1)  XYE3＋EF8FZ (RED)
(D-2)  XYE3＋EF12FZ (RED)	(E), (H-1), (H-2) (Q-1)  XTV3＋8FFZ (BLACK)	(F)  XTV3＋8FFR (RED)	(G-1), (G-2)  XYN26＋6FE (BLACK)	(I), (J), (N), (O), (R-1), (W), (X)  XTV4＋10JR (RED)
(K), (M)  XTV4＋10JFR (RED)	(L-1), (L-2)  XYN26＋C5FR (RED)	(P)  XTW3＋8TR (RED)	(Q-2)  XYN26＋C12FZ (BLACK)	(R-2)  XYE3＋EF8FR (RED)
(S)  XYN3＋F12FZ (BLACK)	(T-1)  XTW3＋10TFR (RED)	(T-2)  XYE4＋EF6 (GOLD)	(U), (V)  XYN3＋F8R (RED)	(Y-1)  XTB26＋8G (GOLD)
(Y-2)  XTV3＋8G (GOLD)	(Z)  XTV26＋8FR (RED)			

SECTION 3

MECHANISM

CONTENTS

3-1. Parts Location ···· **3-3**

3-2. Servicing Fixtures and Tools ···· **3-4**

3-3. How To Eject Manually ···· **3-5**

3-4. Maintenance Procedures ···· **3-6**
3-4-1. Regular Maintenance ···· 3-6
3-4-2. Maintenance Chart ···· 3-6
3-4-3. Lubrication Procedures of the Capstan Shaft ···· 3-7
3-4-4. Procedures for Cleaning of the Cylinder Unit ···· 3-7
3-4-5. Adjustments After Re-installing the Upper Cylinder, Lower Cylinder ···· 3-8
3-4-6. Adjustments After Re-installing the A/C Head Unit ···· 3-8

3-5. Mechanical Parts Replacement Procedures ···· **3-9**
3-5-1. Replacement of the Upper Cylinder Unit ···· 3-9
3-5-2. Replacement of the Lower Cylinder Unit ···· 3-10
3-5-3. Replacement of the A/C Head (1) Unit ···· 3-10
3-5-4. Replacement of the Full Erase Head ···· 3-10
3-5-5. Replacement of the Capstan Rotor and Capstan Stator ···· 3-10
3-5-6. Replacement of the Capstan Housing Unit ···· 3-11
3-5-7. Replacement of the Inclined Base (S), (T) ···· 3-12
3-5-8. Replacement of the P5 Post ···· 3-12
3-5-9. Replacement of the Reel Unit ···· 3-13
3-5-10. Replacement of the Main Brake (S), (T) Unit ···· 3-13
3-5-11. Replacement of the Pressure Roller Unit ···· 3-13
3-5-12. Replacement of the Mode Switch ···· 3-14
3-5-13. Replacement of the Pinch Solenoid ···· 3-14
3-5-14. Replacement of the Head Cleaning Pad ···· 3-15

3-6. Adjustment Procedures ···· **3-16**
3-3-1. Flow Chart of Tape Interchangeability Adjustment ···· 3-16
3-3-2. Coarse Adjustment of the Tape Guide Post Heights (P2 andP3) ···· 3-17
3-3-3. Fine Adjustment of the Guide Post Height (P2 and P3) (Linearity) ···· 3-18
3-3-4. Adjustment of the Pull-out Post (P5) Height ···· 3-18
3-3-5. Adjustment of the A/C Head ···· 3-19
3-3-6. Coarse Adjustment of the A/C Horizontal Position (X-Value) ···· 3-21
3-3-7. Fine Adjustment of the A/C Horizontal Position (X-Value) ···· 3-21
3-3-8. Adjustment of Inclined Base (T) ···· 3-22
3-3-9. Adjustment of Thrust Gap ···· 3-22
3-3-10. Adjustment of FG Gap ···· 3-22
3-3-11. Measurement and Adjustment of Back Tension ···· 3-23
3-3-12. Height Adjustment of the Reel Tables ···· 3-23
3-3-13. Measurement and Adjustment of the Brake Torque ···· 3-24
3-3-14. Pressing Force Confirmation of Pressure Roller Unit ···· 3-25
3-3-15. Adjustment of Rev Tension Sensor Position ···· 3-25

3-7. Assembly and Adjustment of Mechanism ···· **3-27**
3-7-1. Confirmation of Alignment Condition ···· 3-27
3-7-2. Assembly Procedures of Sub Cam Gear, Ring Gear and Detent Arm ···· 3-28
3-7-3. Assembly Procedures of Main Cam Gear and Pinch Speed Down Gear ···· 3-28
3-7-4. Assembly Procedures of Loading Cam Gear and Retainer Gear ···· 3-28
3-7-5. Assembly Procedures of Center Gear ···· 3-29
3-7-6. Assembly Procedures of Main Lever and Cam Follower Arm Unit ···· 3-29
3-7-7. Assembly Procedures of Loading Gear (T), Loading Gear (S) Sector Gear ···· 3-29
3-7-8. Assembly Procedures of Connection Gear ···· 3-30
3-7-9. Assembly Procedures of Mode Switch and P5 Pull Out Sector Gear ···· 3-30
3-7-10. Assembly Procedures of Pinch Cam and Pressure Roller Unit ···· 3-30
3-7-11. Assembly Procedures of Gear Base Unit ···· 3-31
3-7-12. Re-installation of Cassette Compartment ···· 3-31

3-1. PARTS LOCATION

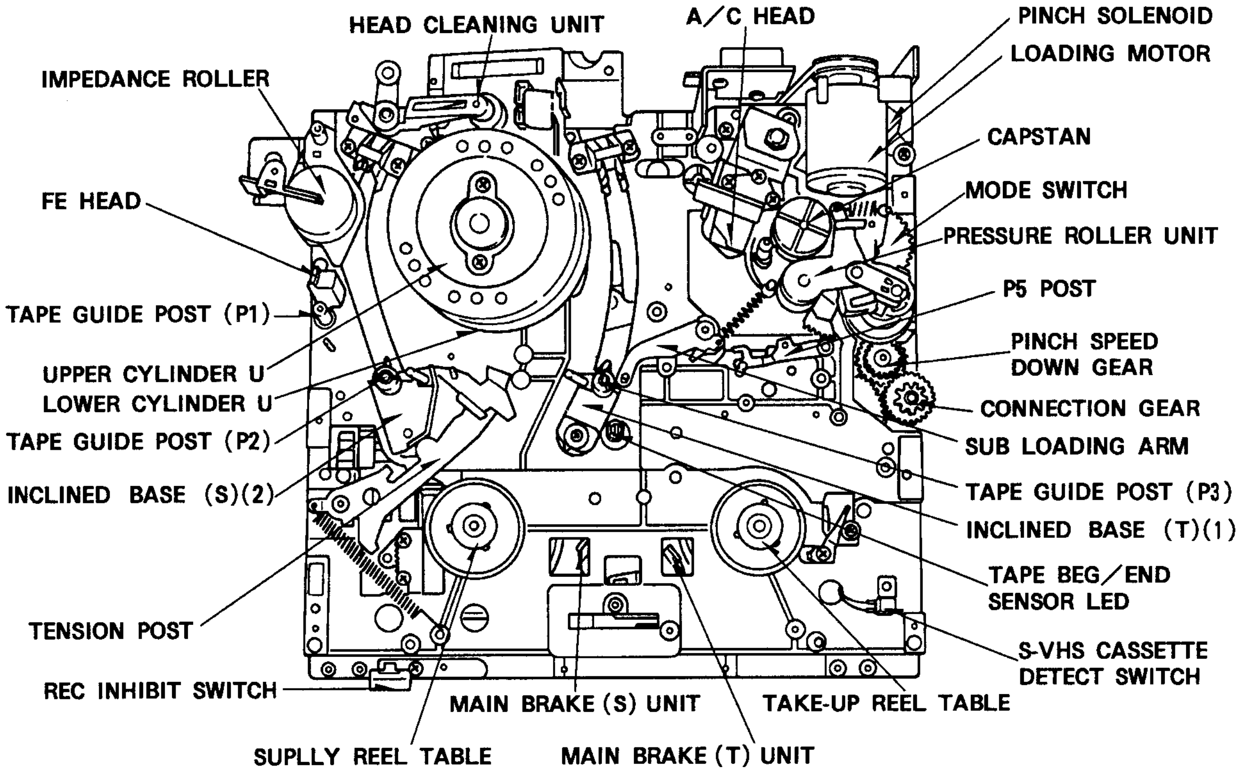

HEAD CLEANING UNIT
A/C HEAD
PINCH SOLENOID
LOADING MOTOR
IMPEDANCE ROLLER
CAPSTAN
MODE SWITCH
FE HEAD
PRESSURE ROLLER UNIT
P5 POST
TAPE GUIDE POST (P1)
PINCH SPEED DOWN GEAR
UPPER CYLINDER U
LOWER CYLINDER U
CONNECTION GEAR
TAPE GUIDE POST (P2)
SUB LOADING ARM
INCLINED BASE (S)(2)
TAPE GUIDE POST (P3)
INCLINED BASE (T)(1)
TAPE BEG/END SENSOR LED
TENSION POST
S-VHS CASSETTE DETECT SWITCH
REC INHIBIT SWITCH
MAIN BRAKE (S) UNIT
TAKE-UP REEL TABLE
SUPLLY REEL TABLE
MAIN BRAKE (T) UNIT

Figure M1

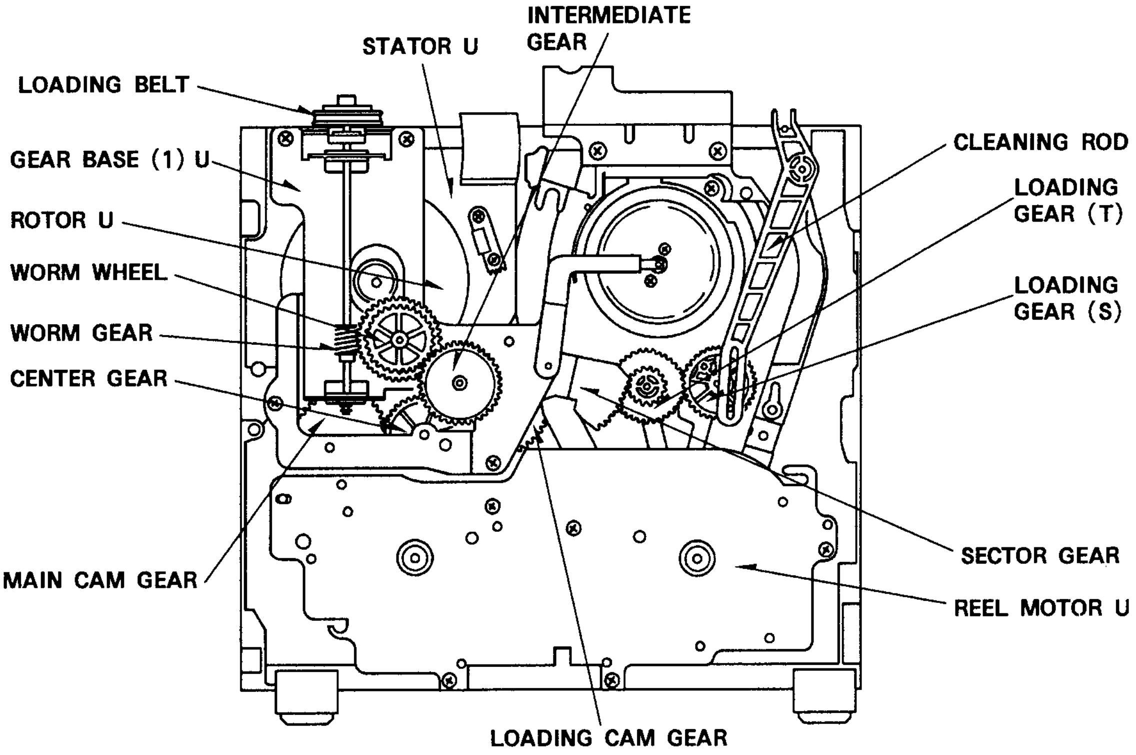
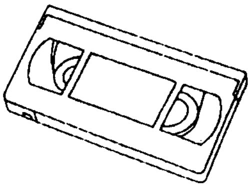

INTERMEDIATE GEAR
STATOR U
LOADING BELT
GEAR BASE (1) U
CLEANING ROD
LOADING GEAR (T)
ROTOR U
WORM WHEEL
LOADING GEAR (S)
WORM GEAR
CENTER GEAR
SECTOR GEAR
MAIN CAM GEAR
REEL MOTOR U
LOADING CAM GEAR

Figure M2

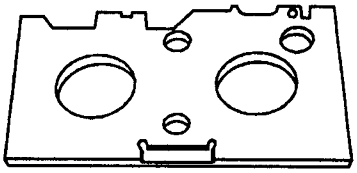
3-2. SERVICING FIXTURES AND TOOLS

The specified servicing fixture must be used to conduct adjustment.
The folloeing fixtures, tools and measuring equipments are required to conduct complete Mechanical Adjustments.

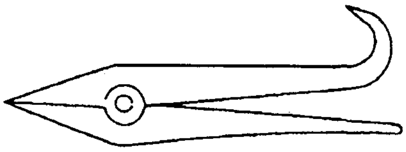
VFM8180HADH ; VHS Alignment Tape



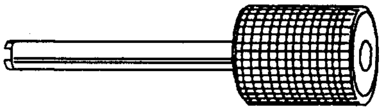
VFK1012 ; Post Adjustment Plate



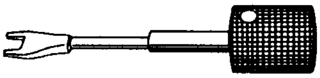
VFK0335 ; Retaining Ring Remover



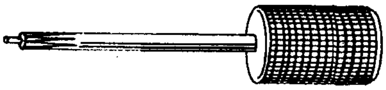
VFK0329 ; Post Adj. Screwdriver



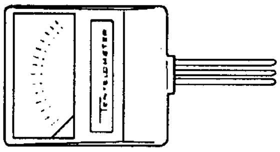
VFK0328 ; H-Position Adj. Screwdriver



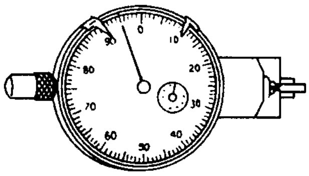
VFK0330 ; Fine Adj. Screwdriver (3mm)



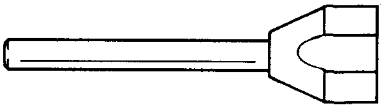
VFK0132 ; Back Tension Meter (Tentelometer, Made in U.S.A)



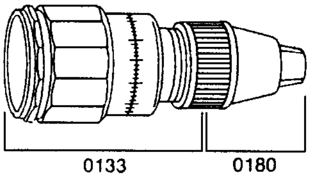
VFK0190 ; Reel Table Height Fixture



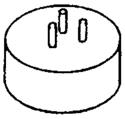
VFK0950 ; Centering Fixture



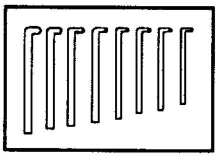
VFK0133 ; Dial Torque Gauge
VFK0180 ; Plastic Clamper Only



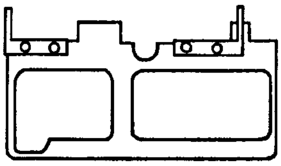
VFK0134 ; Adaptor for VFK0133



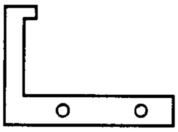
VFK0326 ; Hex. Wrench Set (0.7, 0.9, 1.2, 1.5, 1.6, 2, 2.4, 3mm)



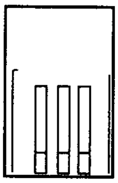
VFK0236 ; Tension Post Adj. Plate



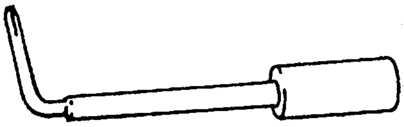
VFK0806 ; Tension Sensor Adj. Fixture



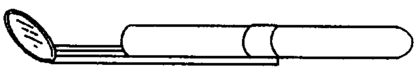
VFK27 ; Head Cleaning Stick



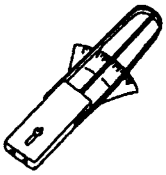
VFK0269 ; L Type Screwdriver



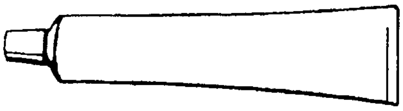
VFK0948 ; Check Light



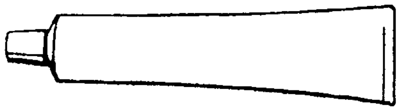
VFK66 ; Fan Type Tension Gauge



VFK0680 ; S.C.R. Grease (White) (for plastic part)



MOR265 ; Morlytone Grease (Black) (for metal part)



VFK0906 ; High Quality Oil (for Capstan shaft and P5 Post)

Cleaning Liquid (Alchol) (Tape Transport Rubber Parts, etc.)

<< PURCHASE LOCALLY >>

3-3. HOW TO EJECT MANUALLY

If the electrical circuit is defective and the action of unloading and front unloading don't work properly, it is possible to eject manually as follows.

1. Take out the Main AC.
2. Release the direction as shown in Figure M3.
3. Release the Wormshaft to clockwise unit cassette is ejected.

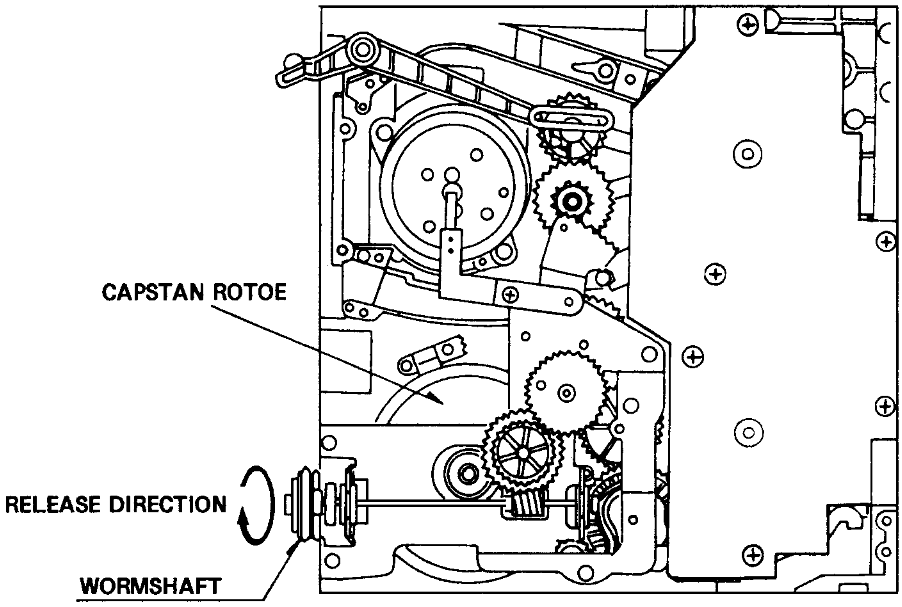

CAPSTAN ROTOE
RELEASE DIRECTION
WORMSHAFT

Figure M3 How to Eject Manually

3-4. MAINTENANCE PROCEDURES

3-4-1. REGULAR MAINTENANCE

The purpose of periodic maintenance is to preserve the functioning of this machine throughout its useful life. The user or service dealer should perform these maintenance regularly to ensure that maximum utility is obtained from the machine.

The VCR is a complicated place of equipment. It contains many belts, rollers, heads etc., which become worn, and deterlorate as time goes by, causing trouble. Dust and dirt will also impede the proper functioning of the machine. In light of this, it is very important that overall maintenance be done according to the maintenance chart to maintain the functions of the VCR, and to avoid accidental problems. This maintenance should also be performed after any repairs are done on the equipment.
The VCR used for business applications requires particular attention for several reasons. The installation conditions and applications are not always the best. Long use times, or poor environmental conditions may adversely affect the lifespan and performance of the machine. Regular maintenance assures that the purchaser obtains the maximum value for his expenditure. Accordingly, the necessity of regular maintenance should be fully explained at the time of sale, as well as during after-sale repairs.

3-4-2. MAINTENANCE CHART

The following periodic maintenance is required to prolong the life of the machine.

Ref. No. IN P/L	Parts Name	Hour									
		500	1000	1500	2000	2500	3000	3500	4000	4500	5000
	Tape Transporter	●	●	●	●	●	●	●	●	●	●
1-7	Loading Motor U								◎		
1-19	A/C Head U	●	●	●	●	●	●	●	◎	●	●
1-25	Pressure Roller U	●	●	●	◎	●	●	●	◎	●	●
1-36	Mode Switch								◎		
1-39	P5 Arm U								▲		
1-41	Upper Cylinder	●	◎	●	◎	●	◎	●	◎	●	◎
1-42	Lower Cylinder U	●	●	●	●	●	●	●	◎	●	●
1-45	Inclined (T) U								▲		◎
1-48	Inclined (S) U								▲		◎
1-56	FE Head	●	●	●	●	●	●	●	◎	●	●
1-66	Head Cleaning U		◎		◎		◎		◎		◎
2-1	Worm Shaft								▲		
2-2	Loading Belt				◎				◎		
2-3	Worm Wheel								▲		
2-8	Stator Base Unit								◎		
2-16	Main Brake (S)				◎				◎		
2-18	Main Brake (T)				◎				◎		
2-23	Takeup Reel Tuble U								◎		
2-24	Supply Reel Table U								◎		
2-28	Capstan Roter U	●	●	●	△	●	●	●	△	●	●
2-33	Main Cam Gear								▲		
2-39	Loading Cam Gear								▲		

＊NOTE :

Symbol	Maintenance	Requirement	Remark
●	Cleaning	Ethyl-alcohol or Cleaning Liquid (Purchase locally)	Wipe dirt from the parts using soft cloth impregnated with Ethyl-Alcohol. Note: When cleaning rubber parts, avoid using excessive alcohol since it may accelerate deterioration of these parts. After cleaning with alcohol, wipe the alcohol quickly and thoroughly.
◎	Replacement		
△	Lubrication	High Quality Spindle Oil (Purchase locally)	Supply one or two drops of oil.
▲	Greasing	Molytone Grease (MOR265)	Wipe the old grease and apply new grease.
×	Greasing	S.C.R. Grease (VFK0680)	Wipe the old grease and apply new grease.

3-4-3. LUBRICATION PROCEDURES OF THE CAPSTAN SHAFT

1. Remove the Pressure rollerUnit.
2. Remove the Thrust Screw.
3. Apply two drops of the oil (VFK0906) on the top of Capsutan Shaft as shown in Fig M6-A.

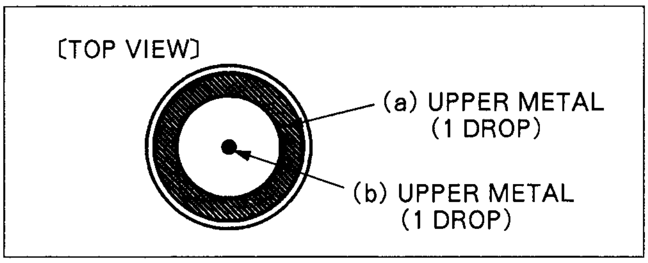
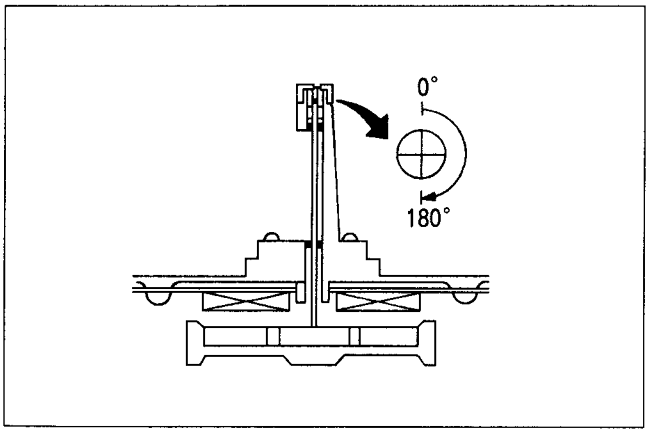

[TOP VIEW]
(a) UPPER METAL (1 DROP)
(b) UPPER METAL (1 DROP)

Figure M4

4. Turn the Thrust Adjustment Screw slowly to clockwise until the Capstan Rotor just starts turning (separate from the Capustan Stator).
5. Turn the Thrust Adjustment Sscrew another 180° clockwise as shown in Figure M6-B.
6. Install the Pressure Roller Unit.
7. Wipe the extra oil.



Figuer M5

3-4-4. LUBRICATION PROCEDURES OF THE P5 POST

1. Remove the Nut (A) as shown in Figure M6.
2. Apply two drops of the oil (VFK0906) on the shaft.
3. Push down the P5 post several times so that the oil spreads around the shaft.
4. Install the Nut (A) Refer to 3-5-8 Replacement of the P5 Post.

Note: After-reinsalling the P5 Post Comfirmation of tape waving and P5 Post height adjustment are required.

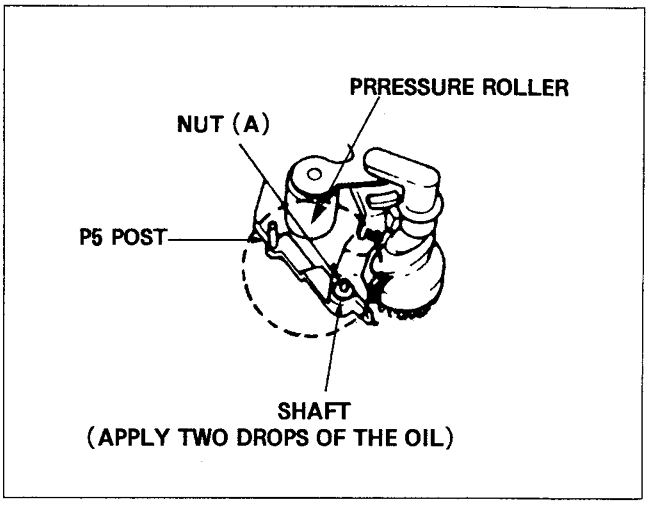

PRRESSURE ROLLER
NUT (A)
P5 POST
SHAFT
(APPLY TWO DROPS OF THE OIL)

Figure M6

3-4-5. PROCEDURES FOR CLEANING OF THE CYLINDER UNIT

1, Position the Video Head to permit access for cleaning and hold the upper cylinder to keep it from turning while cleaning.
2. Gently rub the Video Head in direction of tape travel with Head Cleaning Stick moistened with Cleaning.
3. Repeat for the other video heads (FigureM7).

Note: 1. Do not rub vertically.
2. Do not apply any pressure to heads.

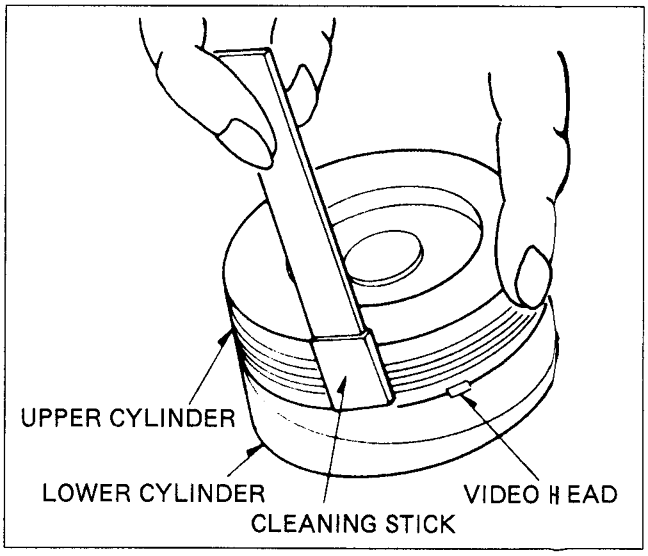

UPPER CYLINDER
LOWER CYLINDER
VIDEO HEAD
CLEANING STICK

Figure M7

3-4-6. ADJUSTMENTS AFTER RE-INSTALLING THE UPPER, LOWER CYLINDER

AFTER RE-INSTALLING THE UPPER CYLINDER OR LOWER CYLINDER

↓

3-6-3. FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT (P2 AND P3) LINEARITY

↓

4-3-2. TRACKING FIX ADJUSTMENT

↓

3-6-6. COARSE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)

↓

3-6-7. FINE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)

↓

4-3-1. PG SHIFTER ADJUSTMENT

↓

4-4-13. CHROMA REC CORRENT ADJ.(AG-7700 ONLY)

↓

4-4-14. S-VHS Y REC CURRENT ADJ.(AG - 7700 ONLY)

↓

4-4-15. VHS Y REC CURRENT ADJ.(AG - 7700 ONLY)

↓

4-5-2. S-VHS PB Y LEVEL ADJUSTMENT

↓

4-5-3. VHS PB Y LEVEL ADJUSTMENT

↓

4-5-4. NORMAL Y LEVEL ADJUSTMENT

↓

4-5-6. VIDEO TRACKING METER ADJUSTMENT

↓

4-5-8. S-VHS PB FREQ RESPONCE ADJUSTMENT

↓

4-5-9. S-VHS FREQ RESPONCE ADJUSTMENT

↓

4-5-10. VHS PB FREQ RESPONCE ADJUSTMENT

↓

4-6-11. Hi-Fi AUDIO HEAD SWITCHING SHIFTER ADJUSTMENT

↓

4-6-14. Hi-Fi AUDIO REC CURRENT ADJ.(AG - 7700 ONLY)

↓

4-7-3. FLYING ERASE CORRENT ADJUSTMENT

Figure M8

3-4-7. ADJUSTMENTS AFTER RE-INSTALLING THE A/C HEAD UNIT

AFTER RE-INSTALLING THE A/C HEAD UNIT

↓

MECHANICAL ADJUSTMENT

↓

3-6-5. ADJUSTMENT OF A/C HEAD
- A. COARSE ADJUSTMENT OF THE A/C HEAD HEIGHT
- B. COARSE ADJUSTMENT OF THE A/C HEAD TILT
- C. ADJUSTMENT OF THE A/C HEAD AZIMUTH
- D. ADJUSTMENT OF THE A/C HEAD TILT & AZIMUTH
- E. ADJUSTMENT OF LOOK SCREW
- F. FINE ADJUSTMENT OF THE A/C HEAD HEIGHT

↓

3-6-3. FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT (P2 AND P3) LINEARITY

↓

3-6-6. COARSE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)

↓

3-6-7. FINE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)

↓

4-6-5. NORMAL AUDIO PLAYBACK FREQUENCY RESPONSE ADJUSTMENT

↓

4-6-6. NORM AUDIO PB GAIN ADJ.(AG - 7700 ONLY)

↓

4-6-7. NORMAL AUDIO ERASE CURRENT ADJ.(AG - 7700 ONLY)

↓

4-6-8. NORMAL AUDIO BIAS CURRENT ADJ.(AG - 7700 ONLY)

↓

4-6-9. NORMAL AUDIO REC CURRENT ADJ.(AG - 7700 ONLY)

Figure M9

3-5. MECHANICAL PARTS REPLACEMENT PROCEDURES

3-5-1. REPLACEMENT OF THE UPPER CYLINDER UNIT

1. First remove two screws as shown in Figure M10-A. Then unsolder of the soldered portions indicatedby arrows on the Upper Cylinder, and finally remove the Upper Cylinder.

Note: Soldered portion can be easily removed by using solder sucking wire, etc.

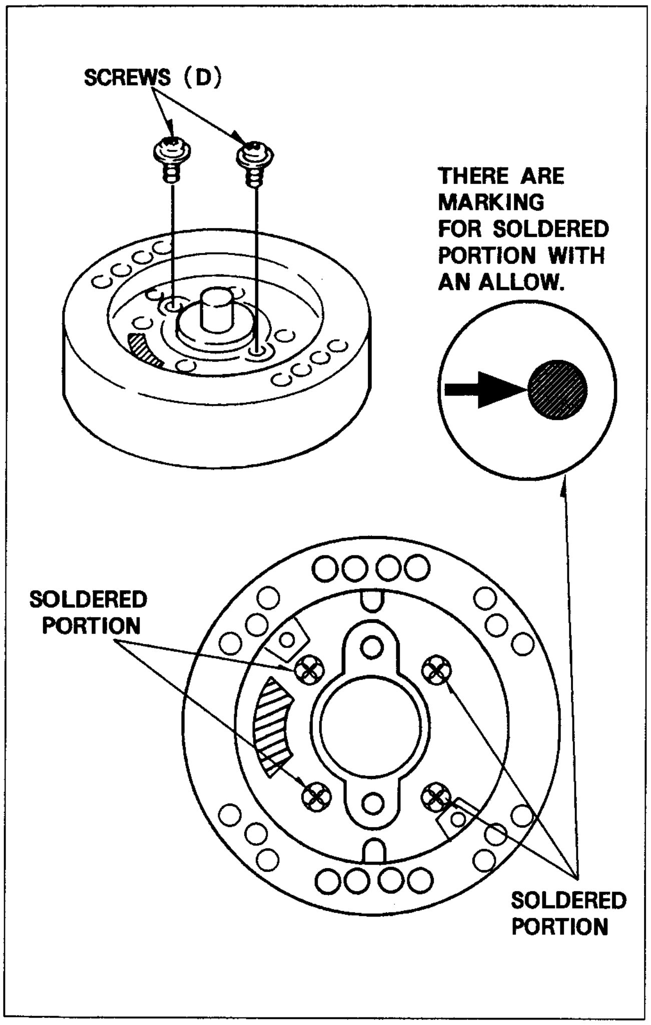

SCREWS (D)
THERE ARE MARKING FOR SOLDERED PORTION WITH AN ALLOW.
SOLDERED PORTION
SOLDERED PORTION

Figure M10-A

2. The Upper Cylinder unit can be reinstalled by reversing the removal procedure.
   However, when Upper Cylinder is installed, be extremely carefully so that white portion of P.C.Board of Upper Cylinder correctly matches the white portion of bottom cylinder as shown in Figure M10-A.

Note: If the Upper Cylinder Unit is reversal installed, no color will appear when playing back pre-recorded tapes.

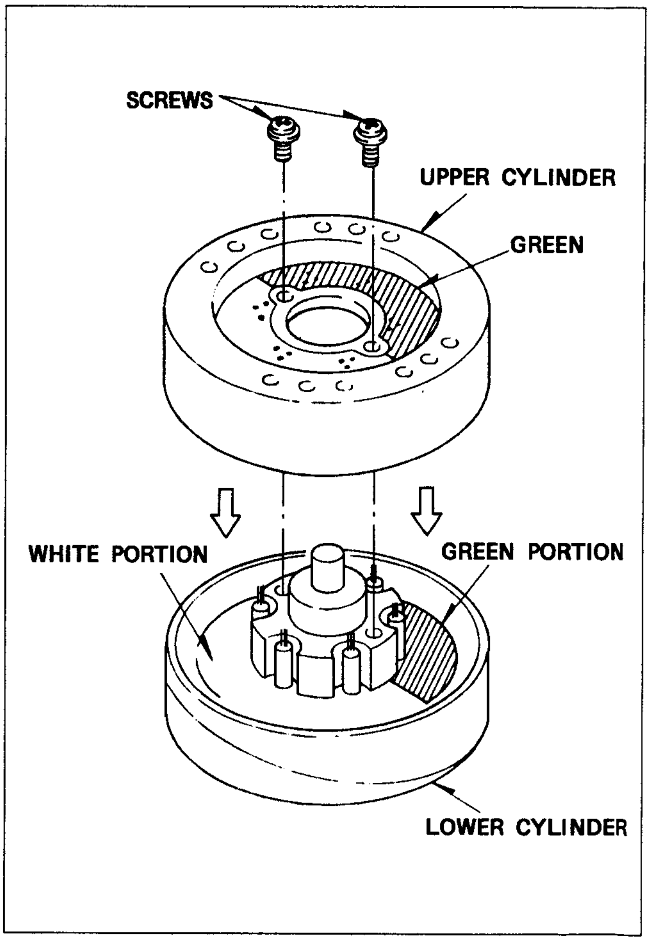

SCREWS
UPPER CYLINDER
GREEN
WHITE PORTION
GREEN PORTION
LOWER CYLINDER

Figure M10-B

3-5-2. REPLACEMENT OF THE LOWER CYLINDER UNIT

1. Unscrew the 2 screws and remove the Head Amp.
2. Remove the Cleaning rod from bottom side.
3. Unscrew 3 screws (A). Since there is very little clearance between DD Cylinder (Lower Cylinder) Unit and Chassis, remove the Cylinder gently and carefully (Figure M11).

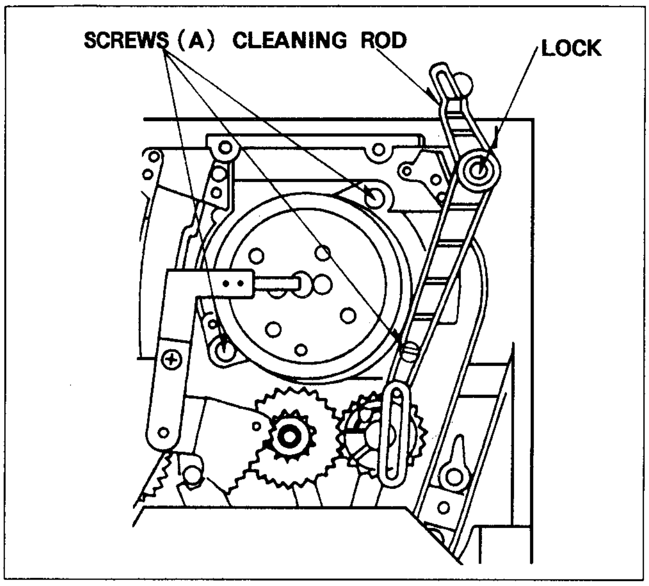


Figure M11

4. Reinstall the new DD Cylinder (Lower Cylinder) Unit in the chassis, tighten the 3 screws (A). Then connect a connectors and reinstall the Cleaning Rod.
5. Re-install the Head Amp C.B.A.

Note: After reinstall the Upper Cylinder Unit should be perform Mechanical and Electrical adjustment (Refer to 3-4-5. Maintenance Procedures).

3-5-3. REPLACEMENT OF THE A/C HEAD (1) UNIT

1. Disconnect a connector (H)(Figure M12).

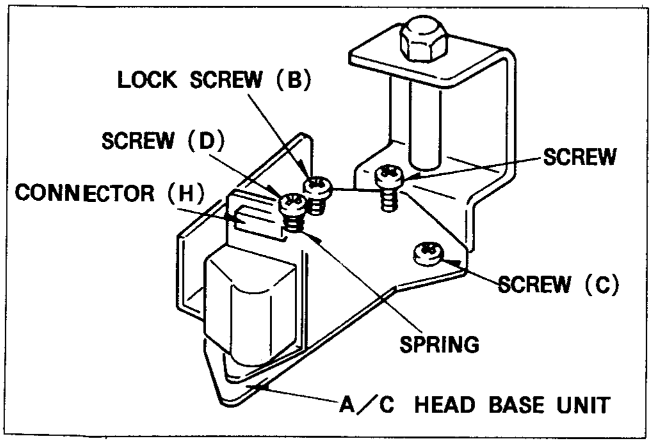


Figure M12

2. Unscrew 3 (B)(C)(D) screws with spring and then remove the A/C Head Unit (Figure M12).
3. The A/C Head (1) Unit can be reinstalled by reversing the removal procedure.

Note: After reinstall the Upper Cylinder Unit should be perform Mechanical and Electrical adjustment (Refer to 3-4-6. Maintenance Procedures).

3-5-4. REPLACEMENT OF THE FULL ERASE HEAD

1. Disconnect a connector (J) and unscrew a screw (E) and remove the Full Erase Head (Figure M13).

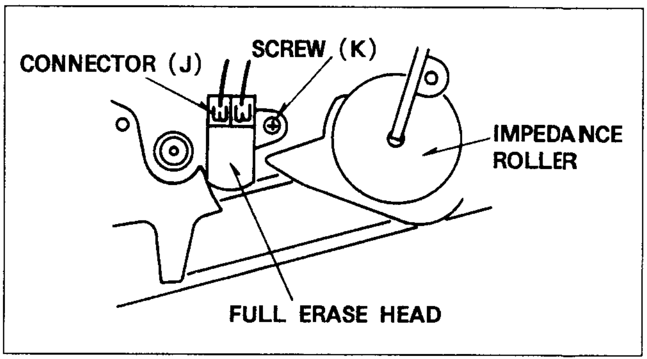


Figure M13

3. The new Full Erase Head can be reinstalled by reversing the removal procedure.

3-5-5. REPLACEMENT OF THE CAPSTAN ROTOR & STATOR

When replacing the Capstan stator unit the Center Fixing Tool must be used to fix the center of Capstan Stator Unit.

1. Remove the loading belt.
2. Unscrew the 4 (F) screws and remove Gear base Unit.
3. Carefully lift up the capstan rotor from the capstan housing, taking care so as not loose the 2 oil seals as shown in Figure M14-A.

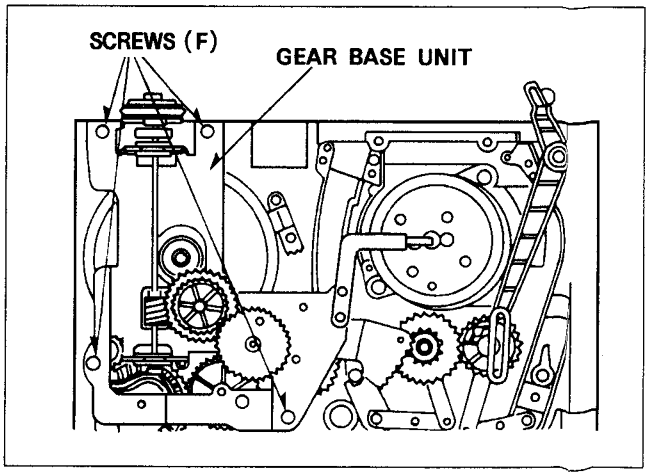


Figure M14-A

4. Remove the 2 oil seals.
5. Unscrew the 3 (G) screws and remove Capstan Stator.
6. Place the capstan stator unit into position.
7. Loosely tighten the 3 (G) screws.
8. Insert the Center Fixing Tool as shown in Figure M14-B.

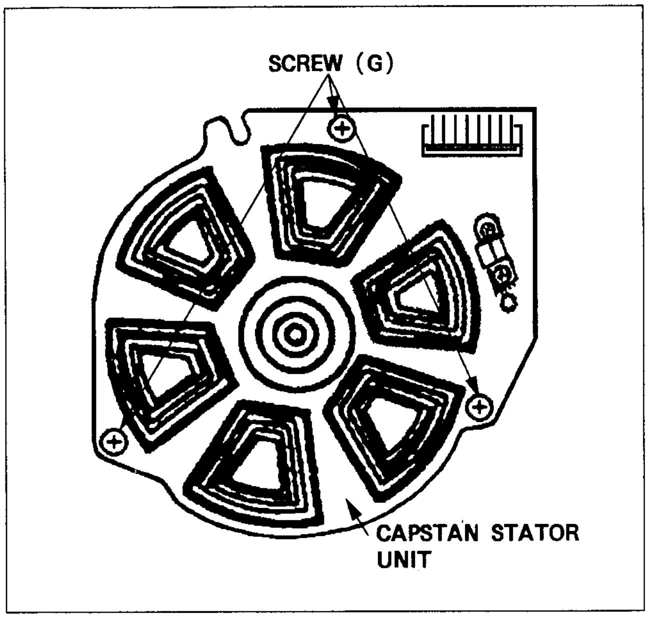

SCREW (G)
CAPSTAN STATOR UNIT

Figure M14-B

9. Tighten the 3 screws (G).
10. Remove the center fixing tool.
11. The new capstan rotor unit can be reinstalled by reversing the removal procedure.

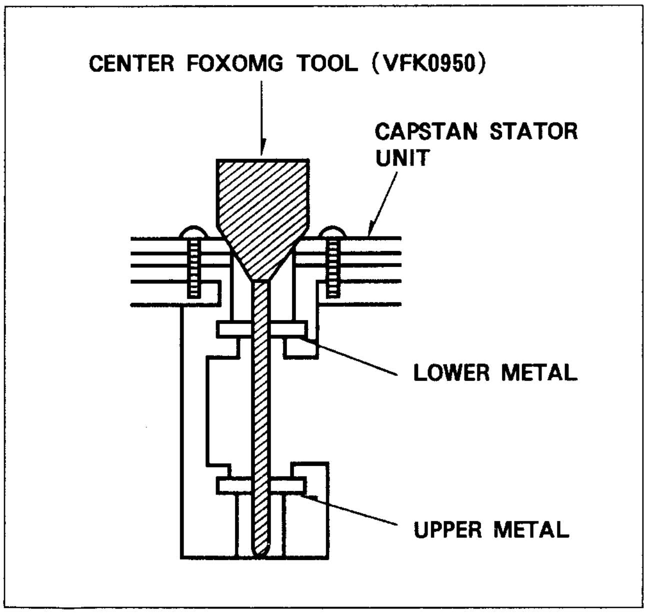

CENTER FOXOMG TOOL (VFK0950)
CAPSTAN STATOR UNIT
LOWER METAL
UPPER METAL

Figure M14-C

3-5-6. REPLACEMENT OF THE CAPSTAN HOUSING UNIT

1. Remove the pressure Roller Unit.
2. Remove the Sub post spring from the hook of Capstan Housing.
3. Unscrew the 3 screws (H) and remove Capstan Housing.
4. Remove the 2 oil seals and thrust screw.
5. Replace the new Capstan Housing, 2 oil seals and thrust screw at same time.
6. Re-install the Capstan Housing Unit by reversing the remove procedure.

Note: After re-installing the thrust screw adjustment of the thrust screw are required. Replace the new Capstan Rotor, 2 oil seals and thrust screw at same time. After re-installing the capstan rotor or capstan stator confirmation of FG out put level and adjustment of FG head gap are required.

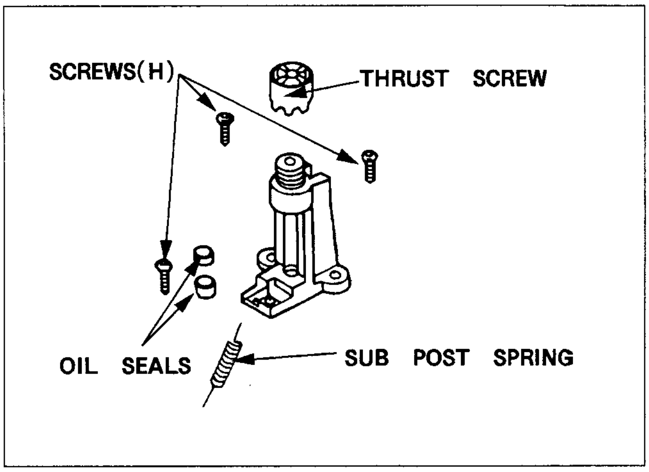

SCREWS(H)
THRUST SCREW
OIL SEALS
SUB POST SPRING

Figure M15

3-5-7. REPLACEMENT OF THE INCLINED BASE (S),(T)

《SUPPLY SIDE》

1. Unscrew a screw (I) and remove the head cleaning plate unit as shown in Figure M13-A.
2. Unscrew the 2 screws (J) and remove the post stopper.

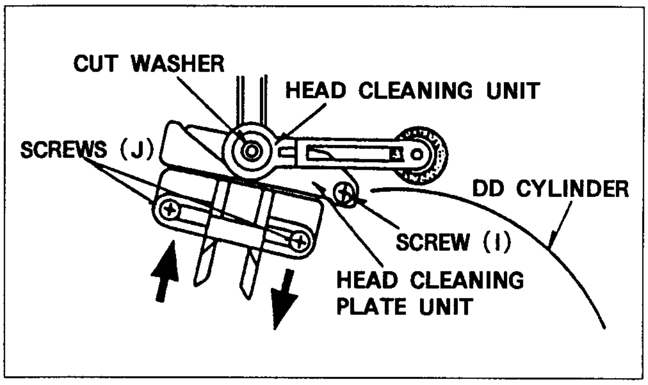

CUT WASHER
HEAD CLEANING UNIT
SCREWS (J)
DD CYLINDER
SCREW (I)
HEAD CLEANING PLATE UNIT

Figure M13-A

3. Remove the P2 post unit from loading arm (S) as shown in Figure M13-B.

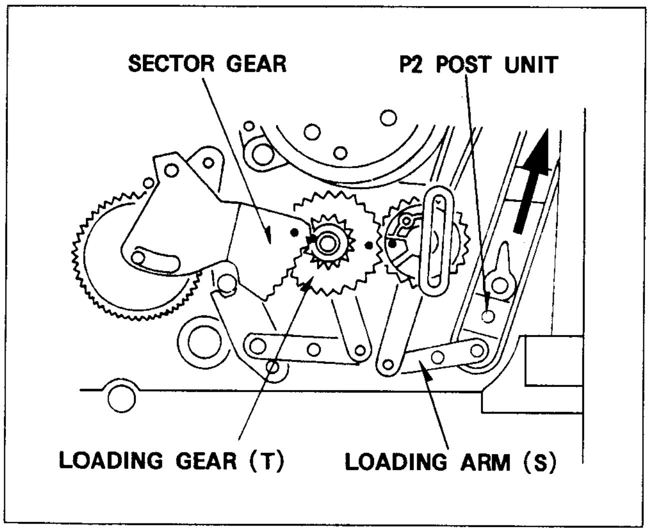

SECTOR GEAR
P2 POST UNIT
LOADING GEAR (T)
LOADING ARM (S)

Figure M13-B

4. Slide the Inclined base (S) and remove it from the chassis as shown in Figure M13-B.
5. Unscrew a screw (L) and remove the P2 Post from the Inclined base(S) as shown in Figure M13-C.
6. The new inclined base unit can be reinstalled by reversing the removal procedure.

Note: Install post stopper pushing the arrow direction (A), (B) as shown in Figure M13-A. After re-installing the inclined base (S) confirmation of tape interchangeability and P2, P3 posts adjustments are required.

《TAKE-UP SIDE》

1. Unscrew a screw (K) and remove the inclined base (T) as show in Figure M13-C.
2. Unscrew a screw (L) and remove the P3 Post.
3. Install the inclined base (T) so that the tip of inclined base is center on the Plate Hole and then tighten screw (K).

Note: After re-installing the inclined base (T) confirmation of tape interchangeability and inclined base adjustment are required.

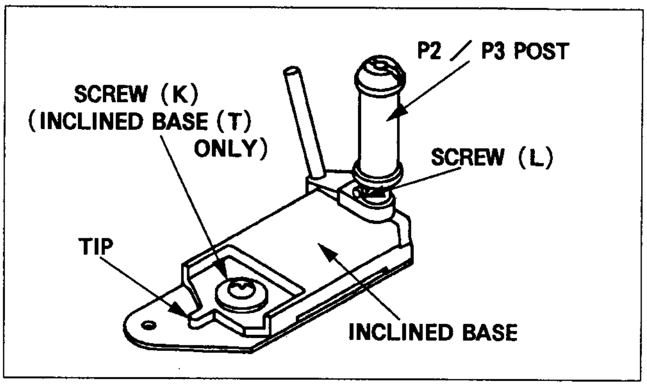

P2 ⁄ P3 POST
SCREW (K)
(INCLINED BASE (T) ONLY)
SCREW (L)
TIP
INCLINED BASE

Figure M13-C

3-5-8. REPLACEMENT OF THE P5 POST

1. Remove the top cover and cassette holder.
2. Rotate the loading motor to clockwise, until the Unloading mode.
3. Remove the pressure roller unit.
4. Remove the pinch cam (Ref. to Replacement of the mode switch) and P5 pull out sector gear as shown in Figure M17.

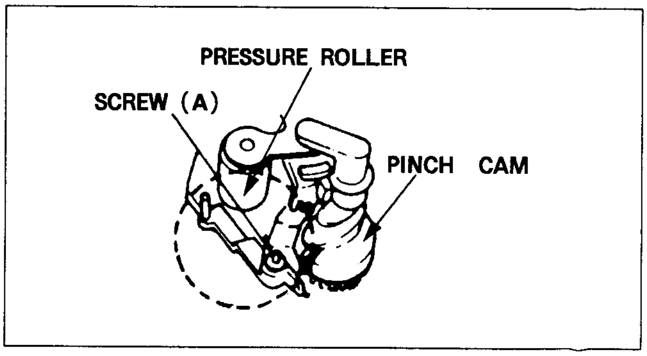

PRESSURE ROLLER
SCREW (A)
PINCH CAM

Figure M17

5. Unscrew a Nut (A) and Remove the P5 Post.
6. The new P5 post can be reinstalled by reversing the removal procedure.

Note: After-reinstalling the P5 post confirmation of tape waving and P5 post height adjustment are required.

3-5-9. REPLACEMENT OF THE REELUNIT

1. Disconnect a connector.
2. Remove 6 screws (L) and carefully lift the DD Reel Unit.

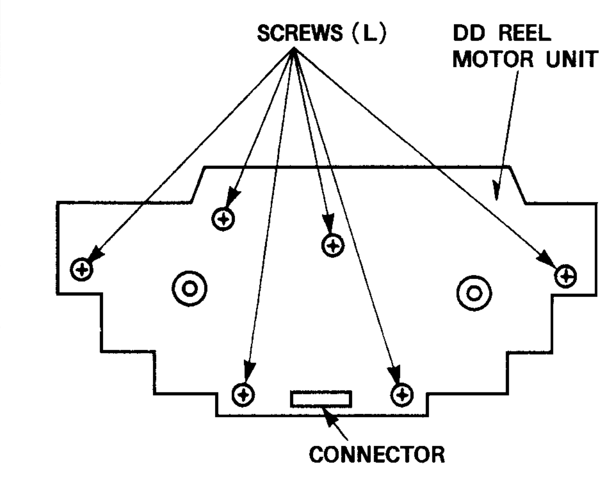

SCREWS (L)
DD REEL MOTOR UNIT
CONNECTOR

Figure M18-A

3. The Reel Motor Unit can be re-installed by reversing the removal procedure.

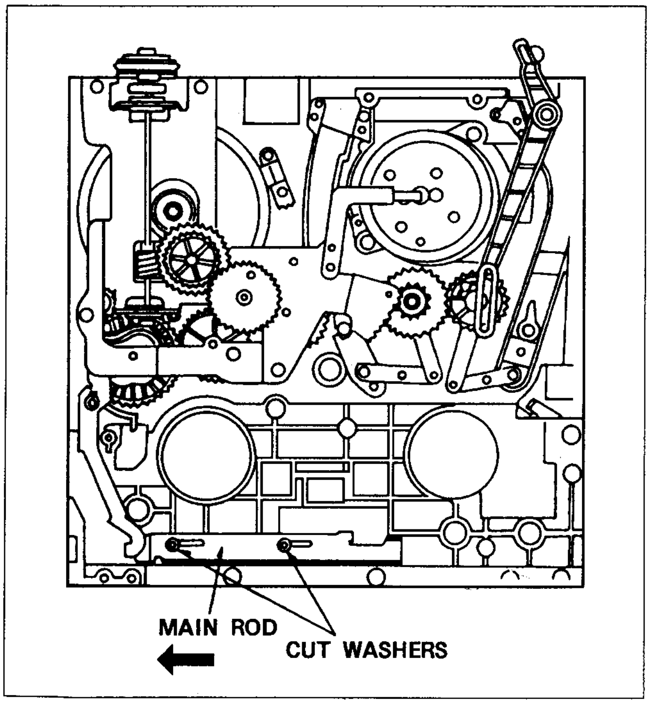

MAIN ROD
CUT WASHERS

Figure M18-B

Note: When assembling the DD Reel Motor Unit, side the Main Rod to far left side by rotating a center Gear.

3-5-10. REPLACEMENT OF THE MAIN BRAKE (S),(T) UNIT

1. Remove the Reel Unit (Refer to Replacement of the Reel Unit).
2. Remove a Retaining Ring (A).
3. Remove the Main Brake (S),(T) with a spring.

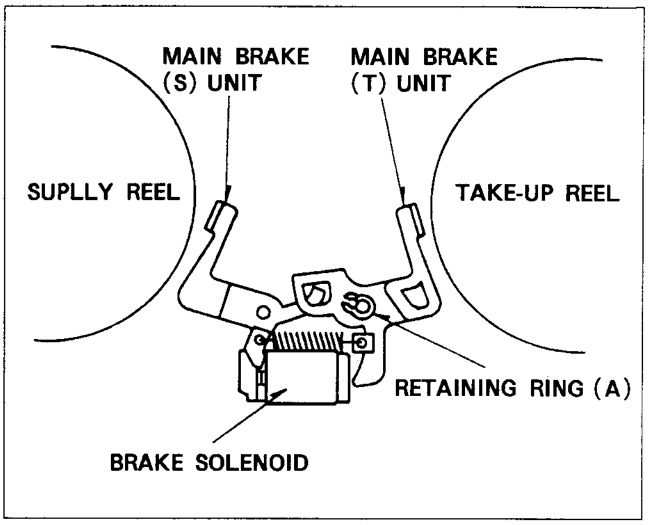

MAIN BRAKE (S) UNIT
MAIN BRAKE (T) UNIT
SUPLLY REEL
TAKE-UP REEL
RETAINING RING (A)
BRAKE SOLENOID

Figure M19

4. The new Main Brake (S),(T) Unit can be reinstalled by reversing the removal procedure.

Note: When assembling the DD Reel Motor Unit, slide the Main Rod to far left side by rotating a Center Gear (Figure M19).

3-5-11. REPLACEMENT OF THE PRESSURE ROLLER UNIT

1. Place the deck in EJECT mode.
2. Remove the Pinch Can Cap.
3. Remove the Pressure Roller Unit.

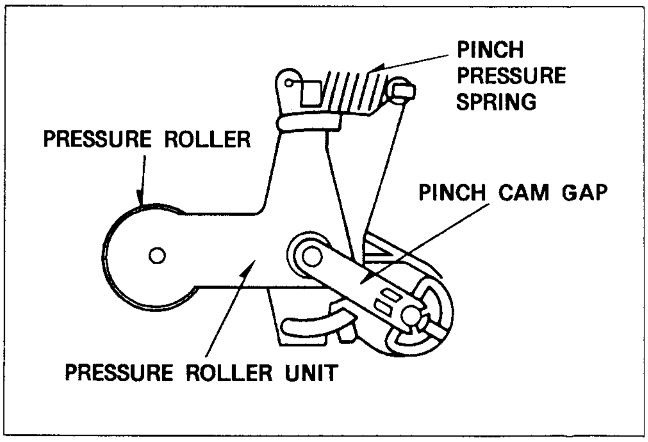

PINCH PRESSURE SPRING
PRESSURE ROLLER
PINCH CAM GAP
PRESSURE ROLLER UNIT

Figure M20

4. The new Pressure Roller Unit can be re-installed by reversing the removal procedure.

3-5-12. REPLACEMENT OF THE MODE SWITCH

1. Place the deck in the STOP mode.
2. Remove the Cassette Compartment Unit. (Refer to Disassembly Procedures).
3. Remove the Pinch Cam Cap and Pressure Roller Unit.
4. Unscrew the 2 screws and remove the Head Amp.
5. Remove the Pinch Cam.
6. Unscrew 2 screws (M) and remove the Loading Motor Base.
7. Unscrew a screw (N) and unsolder 5 of soldered portions.
8. Finally remove the Mode Switch.

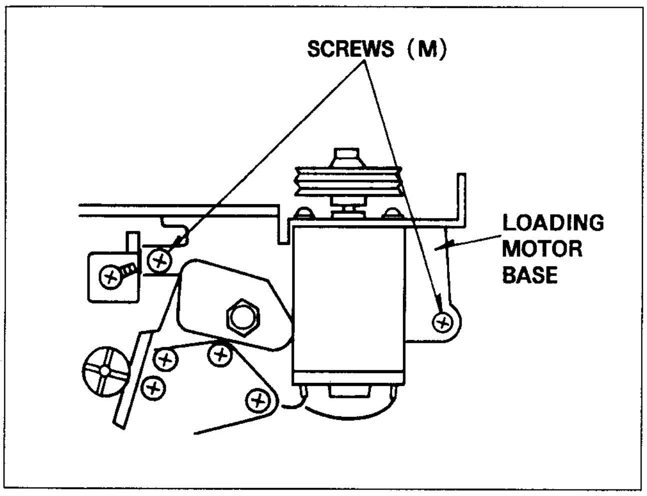

SCREWS (M)
LOADING MOTOR BASE

Figure M21-A

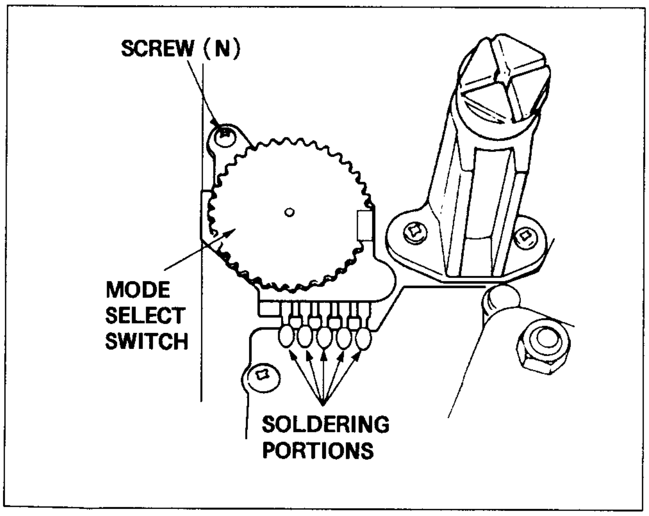

SCREW (N)
MODE SELECT SWITCH
SOLDERING PORTIONS

Figure M21-B

9. Install a Mode Switch and tighten screw (N), then solder 5 soldering portions.
10. Install the Pinch Cam and Pressure Roller Unit. (Refer to "Assembly Procedures of Pinch Cam & Pressure Roller Unit.")
11. Install the Loading Motor Base and tighten screw (M).
12. Install the Head Amp and tighten 2 screws.
13. Install the Cassette Compartment. (Refer to Reinstallation of Cassette Compartment.)

3-5-13. REPLACEMENT OF THE PINCH SOLENOID

1. Unscrew 2 screws (M) and remove the Loading Motor Base (Figure M21-A).
2. Unscrew 2 screws (O), Remove the Motor Pulley and Loading Motor (Figure M22-A).
3. Disconnect a connector (red) on the Motor Base C.B.A.
4. Unscrew 2 screws (P)(Figure M22-B) and remove the Pinch Solenoid.
5. Install the Pinch Solenoid on to the Motor Base so that the hole of the Motor Base should be the large hole of the Solenoid Base (Figure M22-C).
6. Tighten 2 screws (P).
7. Install a Loading Motor and tighten 2 screws (O).
8. Install the Loading Motor Base and tighten 2 screws (M)(Figure M21-A).

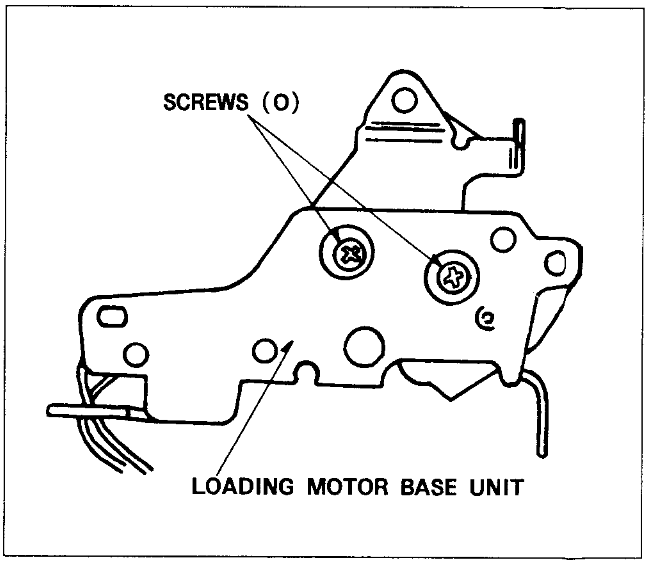

SCREWS (O)
LOADING MOTOR BASE UNIT

Figure M22-A

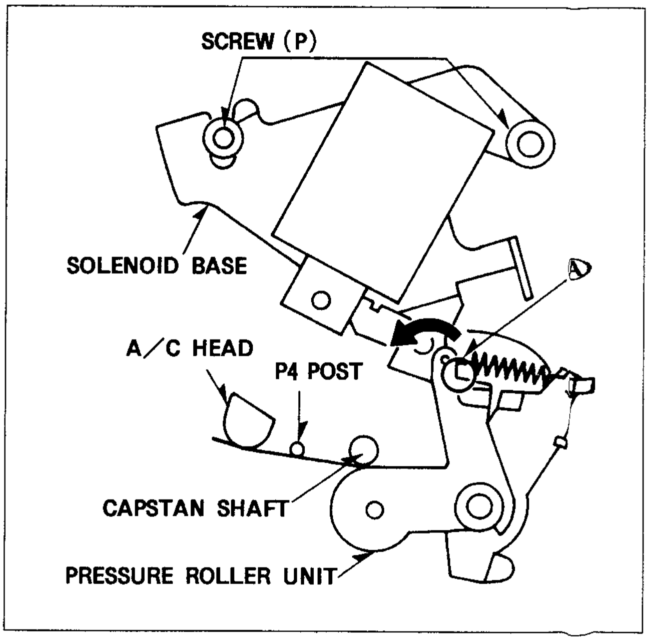

SCREW (P)
SOLENOID BASE
A/C HEAD
P4 POST
CAPSTAN SHAFT
PRESSURE ROLLER UNIT

Figure M22-B

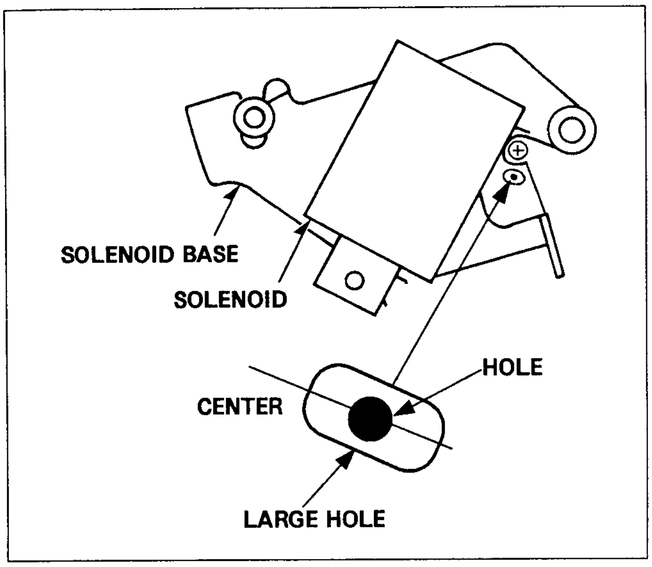

SOLENOID BASE
SOLENOID
HOLE
CENTER
LARGE HOLE

Figure M22-C

Note: Pressure Adjustment of the Pinch Roller (Refer to Mechanical Adjustment procedures) should be performed after completion of reinstalling the Pinch Solenoid.

3-5-14. REPLACEMENT OF THE HEAD CLEANING PAD

1. Remove a Cut Washer (N) and the Head Cleaning Pad Unit.
2. The Head Cleaning Pad Unit can be reinstalled by reversing the removal procedure.

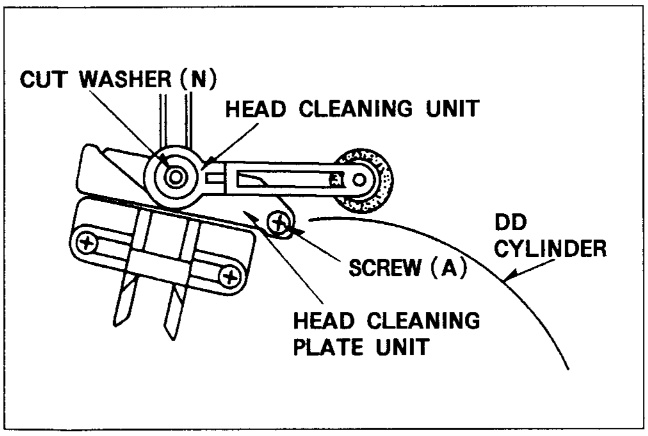

CUT WASHER (N)
HEAD CLEANING UNIT
DD CYLINDER
SCREW (A)
HEAD CLEANING PLATE UNIT

Figure M23

3-6. MECHANICAL ADJUSTMENT PROCEDURES

3-6-1. FLOW CHART OF TAPE INTERCHANGEABILITY ADJUSTMENT

AFTER RE-INSTALLING THE UPPER OR LOWER CYLINDER

3-6-3. FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT

3-6-6. COARSE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION

3-6-7. FINE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION

AFTER RE-INSTALLING THE A/C HEAD

3-6-5. ADJUSTMENT OF THE A/C HEAD
- A. COARSE ADJUSTMENT OF THE A/C HEAD HEIGHT
- B. COARSE ADJUSTMENT OF THE A/C HEAD TILT
- C. ADJUSTMENT OF THE A/C HEAD AZIMUTH
- D. ADJUSTMENT OF THE A/C HEAD TILT AND AZIMUTH
- E. ADJUSTMENT OF LOCK SCREW
- F. FINE ADJUSTMENT OF THE A/C HEAD HEIGHT

3-6-3. FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT

3-6-6. COARSE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION

3-6-7. FINE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION

AFTER RE-INSTALLING THE INCLINED BASE (S)

3-6-2. COARSE ADJUSTMENT OF THE P2, P3 POST HEIGHTS

3-6-3. FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT

AFTER RE-INSTALLING THE INCLINED BASE (T)

3-6-2. COARSE ADJUSTMENT OF THE P2, P3 POST HEIGHTS

3-6-8. ADJUSTMENT OF THE INCLINED BASE (T)

3-6-3. FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT

AFTER RE-INSTALLING THE PULL-OUT (P5) POST

3-6-4. ADJUSTMENT OF THE PULL-OUT POST (P5) HEIGHT

AFTER RE-INSTALLING THE P2, P3 POST

3-6-2. COARSE ADJUSTMENT OF THE P2, P3 POST HEIGHTS

3-6-3. FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT

3-6-2. COARSE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHTS (P2 and P3)

Note: The Tape Guide Posts have been precisely adjusted at the factory. Therefore, normally do not change the height of the P2 and P3 Posts.
To prevent the alignment tape from being damaged, use a normal cassette tape for this procedure.

≪ TOOL ≫

Post Adjustment Plate	VFK1012
Reel Table Height Gauge	VFK0190
Post Adjustment Screwdriver	VFK0329
Check Light	VFK0948
L Type Screwdriver	VFK0269
VHS Video Tape	180min. tape

1. Remove the cassette compartment (Refer to Disassembly Procedures).
2. Place the Post Adjustment Plate over the reel tables. Confirm that the Post Adjustment Plate is firmly seated as shown in Figure M25-A.

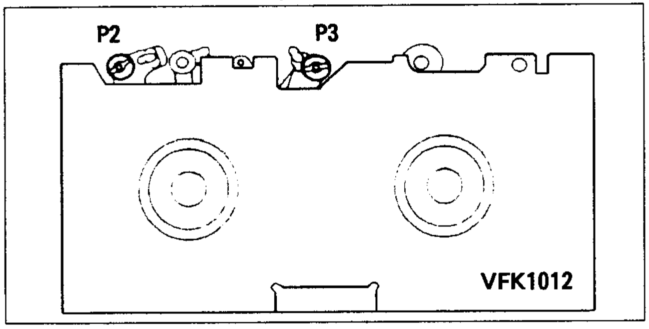


Figure M25-A

3. Lower 2 tape guide posts (P2 and P3) by turning the Post Adjustment screwdriver so that the condition of post becomes as shown in Figure M25-B. That is the lower edge of Tape guide should be lower than surface of AdjustmentPlate.

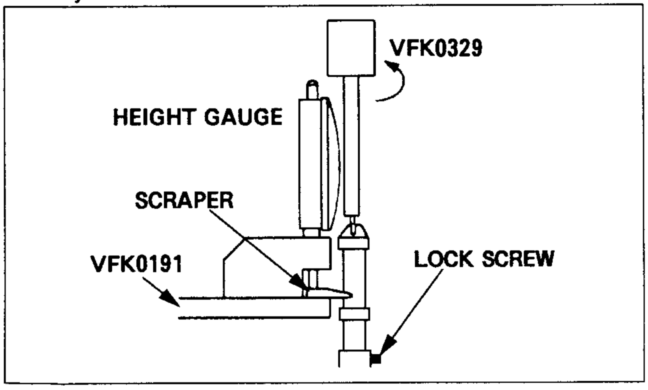


Figure M25-B

Note: Before turning P2 and P3 slightly loosen the Lock Screw using the L Type Screwdriver.

4. Place the scraper of Reel Table height Gauge as shown in Figure M25-C.
Set the gauge to zero, then raise the post slowly until the lower tape guide just touches the bottom of the scraper.
Use the gauge to determine the exact point at which the lower tape guide touches the scraper.

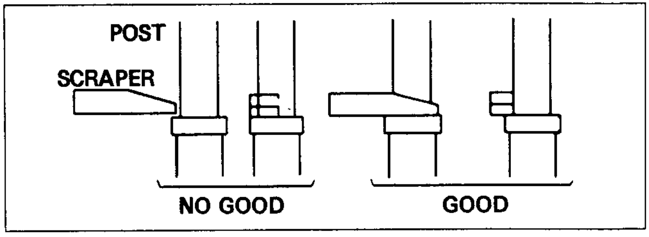


Figure M25-C

5. After the adjustment, install the cassette compartment referring to Reinstallation of cassette compartment.
6. Play back the beginning portion of 180min. tape cassette tape, and confirm that tape travel as shown in Figure M25-D.

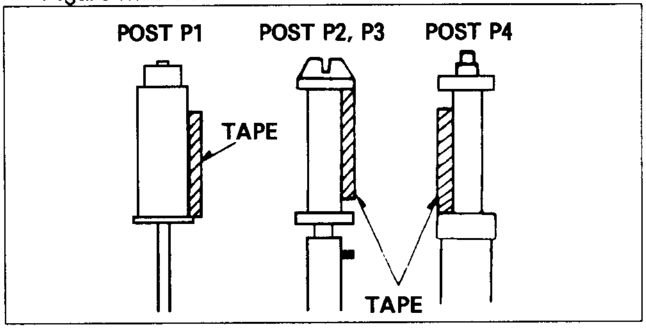


Figure M25-D

7. Make sure that the edges of the tape are not curling or waving at the bottom or top end of the posts P2, P3 by using the Check Light.
8. If there are waving or filling at the lower or upper edge of the P2 and P3 posts, readjust the heights of P2 and P3 Posts correctly as shown in Figure M25-E.

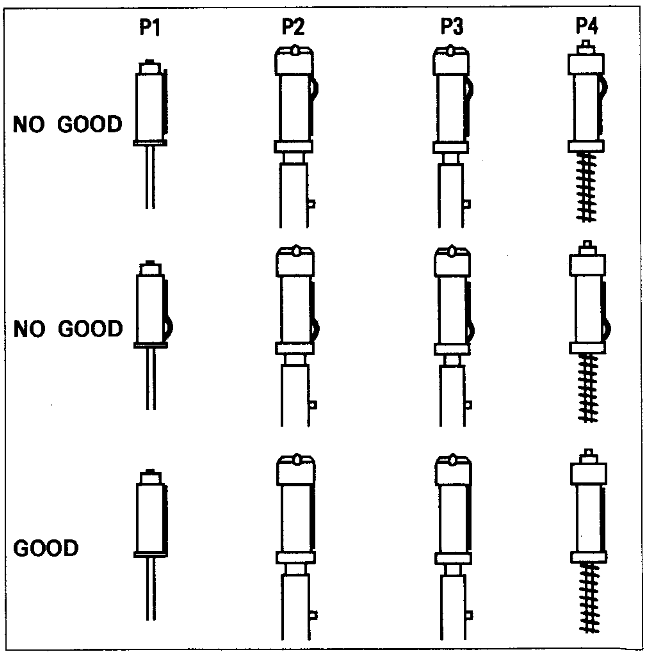


Figure M25-E

9. And confirm that the tape runs along the Cylinder Lead Correctly.

3-6-3. FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT (P2 and P3)(LINEARITY)

≪TOOL≫

Alignment Tape	VFM8180HADH
Post Adjustment Screwdriver	VFK0329

Note: Before playing back the alignment tape playback a normal cassette tape and confirm correct transport.

1. Connect the oscilloscope to TP3005 of the Video I/O C.B.A. (Video RF Envelope and the head switching pulse as a triggering signal.
2. Play back the 2-nd portion (Monoscope 2) of the alignment tape (VFM8180HADH).
3. Adjust the tracking control on the front panel so that the RF envelope becomes maximum.
4. If the RF envelope appears like example A or B in Figure M23-B then adjustment of the tape guide post (P2 ; Entrance) is necessary.

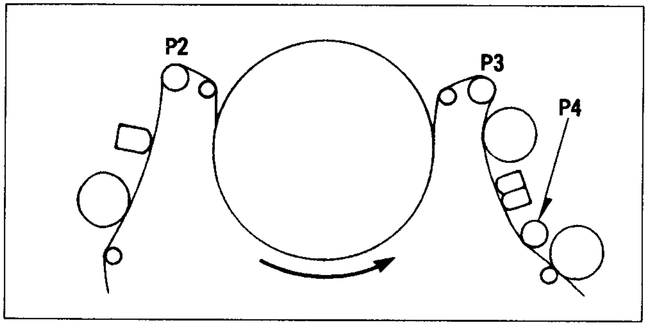


Figure M23-A

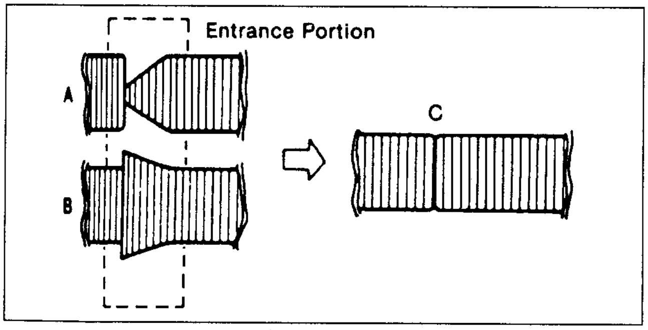


Figure M23-B

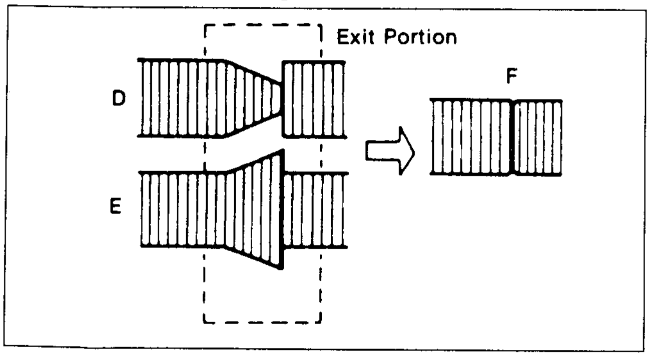


Figure M23-C

5. Adjust the tape guide post (P2) with the post adjustment screwdriver so that the RF envelope waveform at the entrance portion becomes flat as shown in Figure M23-B.
6. If the RF envelope appears like example D or E in Figure M23-C, then adjustment of the tape guide post (P3 ; Exit) is necessary.
7. Adjust the tape guide post (P3) in the same manner as the P2 post so that the exit portion becomes flat as shown in Figure M23-C.
8. The output envelope should vary nearly parallel with other condition as shown in Figure M23-D.

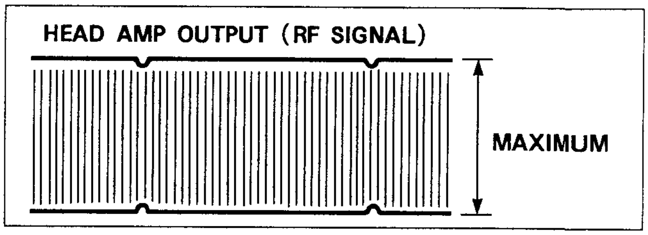


Figure M23-D

9. If the RF envelope does not meet these specification,
   $V1/V0 \geqq 0.7$
   $V2/V0 \geqq 0.8$
   $V3/V0 \geqq 0.7$
   then repeat steps 4-9 again.

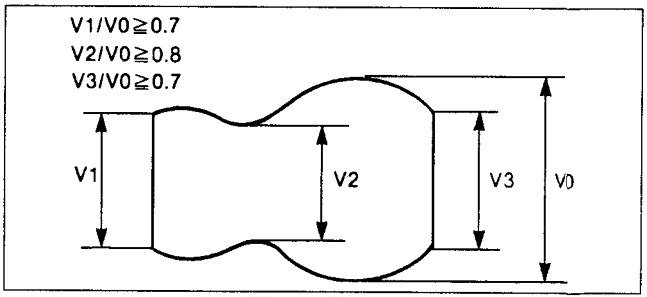


Figure M23-F

3-6-4. ADJUSTMENT OF THE PULL-OUTPOST (P5) HEIGHT

≪TOOL≫

Post AdjustmentPlatee	VFK1012
Reel Table Height Gauge	VFK0190
Nut Driver	Purchase locally
VHS Video Tape	180min. tape

≪SPEC≫

0.03mm 0.01mm

Note: Unless the replacement or adjustment this post is required, the adjustment nut should not be turned.

1. Remove the cassette compartment (Refer to Disassembly procedures).
2. Place the Post Adjustment Plate over the reel tables as shown in Figure M27-A.
3. Turn the Worm Shaft counterclockwise (loading direction) until the mechanical condition becomes as shown in Figure M27-A.
4. Placethe Reel Table Height Gauge on the Post Adjustment Plate and set the gauge to zero 0 as shown in Figure M27-B.

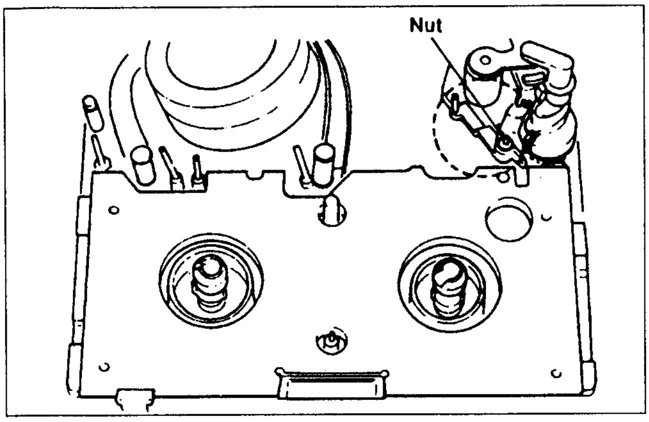


Figure M27-A

5. Place the Reel Table Height Gauge as shown in Figure M27-C and turn the nut slowly until the gauge reads.

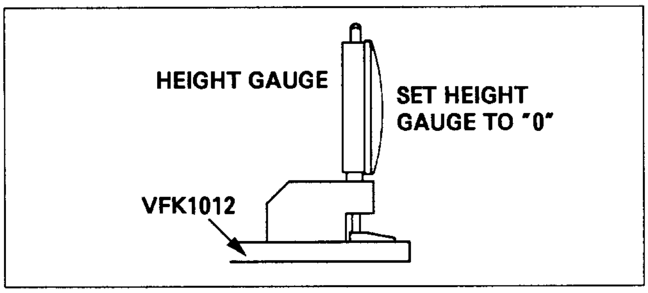

HEIGHT GAUGE
SET HEIGHT GAUGE TO "0"
VFK1012

Figure M27-B

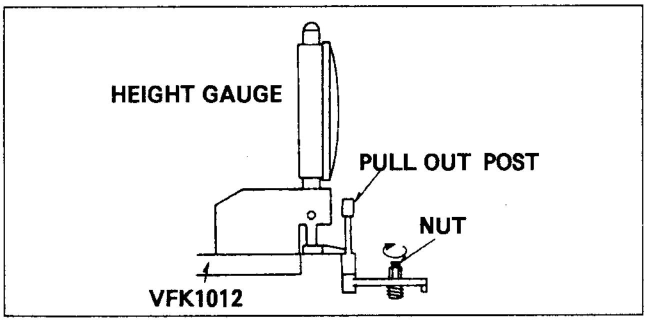

HEIGHT GAUGE
PULL OUT POST
NUT
VFK1012

Figure M27-C

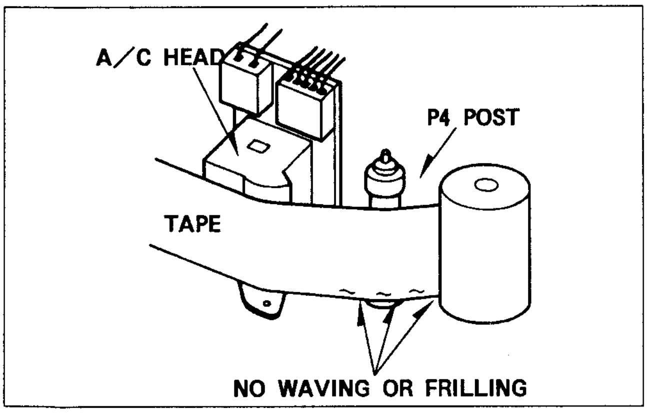

A/C HEAD
P4 POST
TAPE
NO WAVING OR FRILLING

Figure M27-D

6. After the adjustment, install the cassette compartment (Refer to reinstallation of Cassette Compartment).
7. Play back a normal cassette tape on Review search mode, and make sure that the edges of the tape are not curling or waving at the bottom end of the P4 post by using the Check Light as shown in Figure M27-D.

Note: There is easy method to check Waving of Filling. If there is Waving or Filling in the lower edge, the white black pattern which is reflected on the tape will curve or not linear as shown in Figure M27-E.

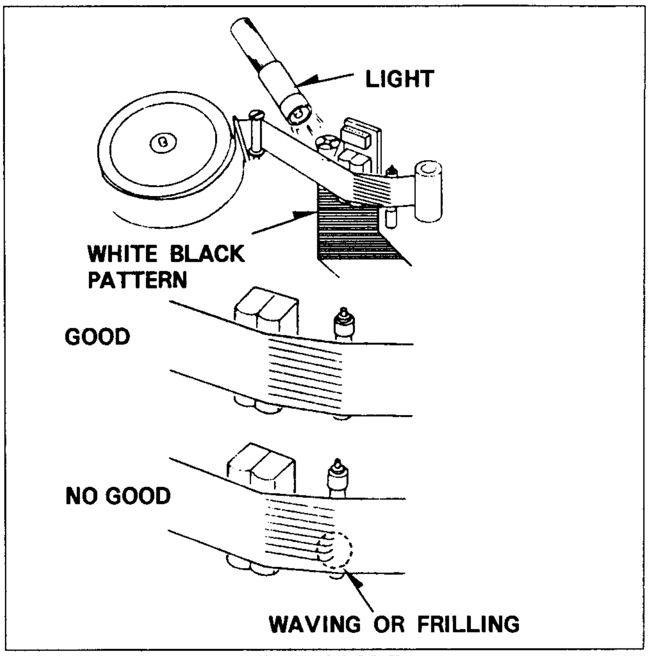

LIGHT
WHITE BLACK PATTERN
GOOD
NO GOOD
WAVING OR FRILLING

Figure M-27-E

3-6-5. ADJUSTMENT OF THE A/C HEAD

A. COARSE ADJUSTMENT OF THE A/C HEAD HEIGHT

Note: This procedure should be performed only when the A/C Head is replaced.

≪ TOOL ≫

Check Light	VFK0948
Nut Driver	Purchase locally
VHS video Tape	180min. tape

1. With the tape running, look at the lower edge of the control head by using the check light.
2. Adjust the Nut (A) as shown in Figure M28-A by turning the Nut (A) clockwise to lower the head, and counterclockwise to raise it.

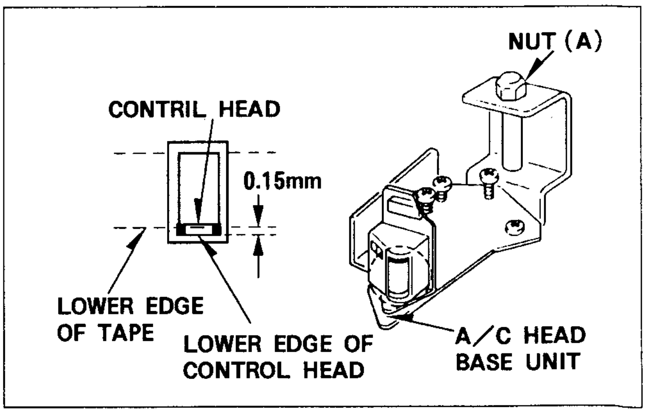

NUT (A)
CONTRIL HEAD
0.15mm
LOWER EDGE OF TAPE
LOWER EDGE OF CONTROL HEAD
A/C HEAD BASE UNIT

Figure M28-A

B. COARSE ADJUSTMENT OF THE A/C HEAD TILT

Note: This procedure should performed only when the A/C Head is replaced or posts heights are readjusted.

≪TOOL≫

Alignment Tape	VFM8180HADH
Check Light	VFK0948
Screwdriver (+)	Purchase locally
VHS Vide Tape	180min. tape

1. Play back a VHS video tape which the amount of tape winding of a Take up Reel, Turn a screw (B) to clockwise until waving or Filling appears in the Lower edge of P4 post as Figure M28-B.

Note: There is easy method to check waving or Filling if there is waving or Filling in the lower edge. ZEBRA pattern which is reflected on the tape will curve or not linear (Figure M27-E).

2. Turn the screw (B) to counter-clockwise until waving or filling do not appear in the in the lower edge of P4 post.

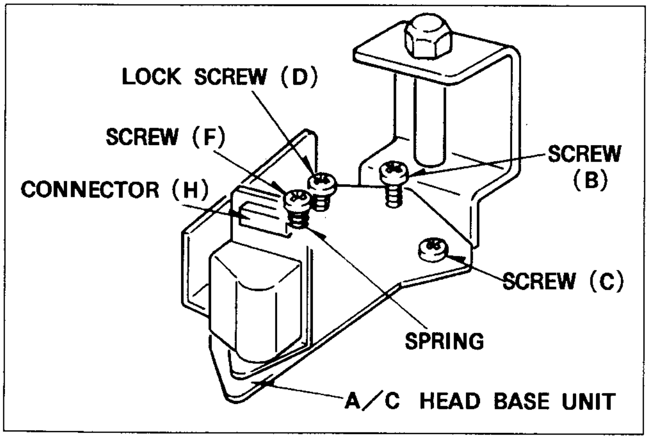


Figure M28-B

C. ADJUSTMENT OF A/C HEAD AZIMUTH

1. Connect the scope CH1 to TP40005(Normal Audio out put CH1) and the scope CH2 to TP40007(Normal Audio output CH2) on the Rear Jack.
2. Play back the 2-nd portion (Normal Audio 6KHz) of the alignment tape (VFM8180HADH).
3. Adjust the screw (C) so that these phases of both channels match as shown in Figure M28-C.

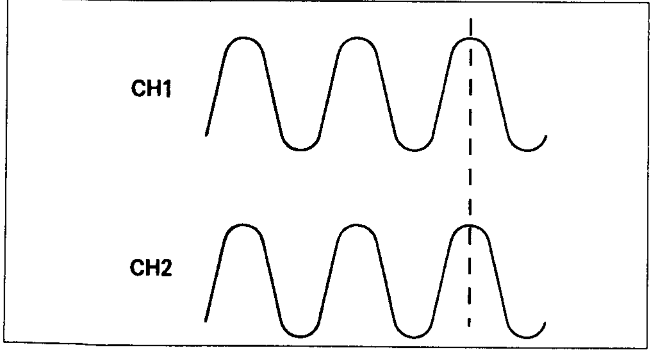


Figure M28-C

D. TILT and AZIMUTH ADJUSTMENT OF A/C HEAD

1. Adjust the screw (C) and (B) so that CH1 and CH2 output levels become maximum, these phase of both channels much at the same time (Figure M28-D). During this adjustment the Lock screw (D) dose not touch the A/C Head Base as shown in Figures M28-E.

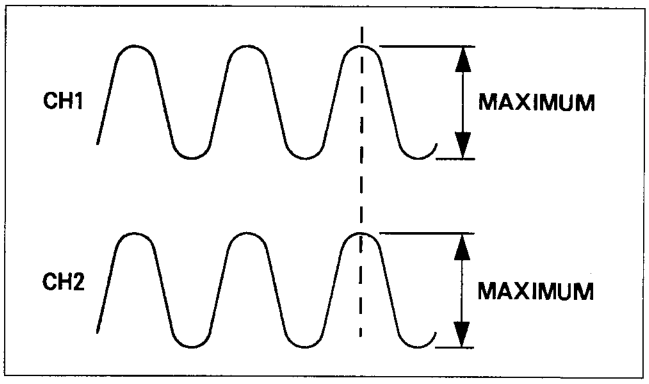


Figure M28-D

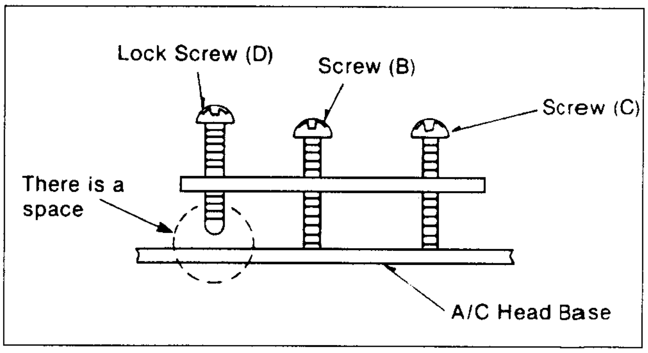


Figure M28-E

E. ADJUSTMENT OF LOCK SCREW

1. Turn the screw (C) to clockwise so that the difference of phase of both channels become 180 degrees as shown in Figure M28-F.
2. Tighten the Lock screw (D) so that these phase of both channels match as shown in Figure M28-F.

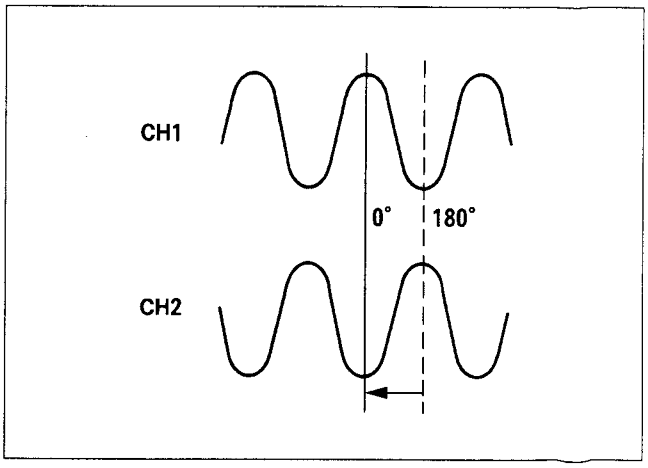


Figure M28-F

F. FINE ADJUSTMENT OF A/C HEAD HEIGHT

Note: Before this adjustment Coarse Adjustment of the A/C Head Height should be performed.

≪ TOOL ≫

Alignment Tape	VFM8180HADH
Nut Driver	Purchase locally

1. Connect a scope CH1 to TP40005(Normal Audio output CH1) and the scope CH2 to TP40007(Normal Audio output CH2) on the Rear Jack C.B.A.
2. Play back the 4-th portion (Normal Audio 1kHz) of the Alignment Tape (VFM8180HADH).
3. Adjust the Nut (A)(Figure M28-A) so that the CH1 output and CH2 output level becomes maximum as shown in Figure M28-G.

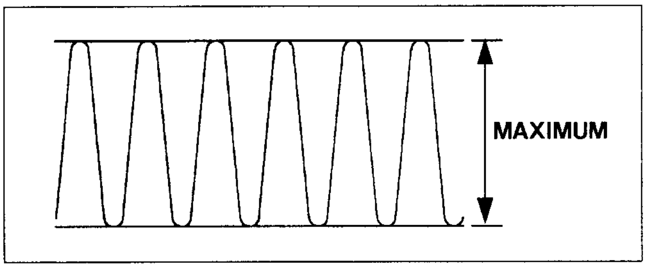


Figure M28-G

3-6-6. COARSE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)

Note: This procedure should be performed only when the A/C head is replaced, and after performing the tape interchangeability adjustment.

≪ TOOL ≫

H-Position Adjustment Screwdriver	VFK0328
Alignment Tape	VFM8180HADH

1. Connect a scope CH1 to Video RF Test Terminal and a scope CH2 to Normal Audio CH2 output on the Rear Jack.
2. Play back the 1-st position (Monoscope 1 and Audio/Every 10-the field is skipped) of the Alignment tape VFM8180HADH.
3. Adjust the A/C head horizontal position screw so that the phase of audio drop out and video RF envelope drop-out becomes the same as shown in Figure M29.

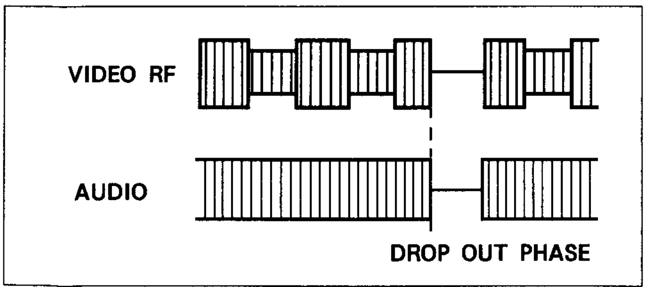


Figure M29

Note: After completion the fine adjustment of the A/C head horizontal position, the phase of Audio drop-out and Video RF envelope drop- out may be changed slightly.

3-6-7. FINE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)

Note: This procedure should be performed only when the A/C head is replaced, and after performing the tape interchangeability adjustment.

≪ TOOL ≫

H-Position Adjustment Screwdriver	VFK0328
Alignment Tape	VFM8180HADH

1. Set the Tracking Control VR to the center fix position.
2. Connect a oscilloscope to Video RF Test Terminal (TP3005 of the Video I/O C.B.A. and TP41003 on the Audio (2) C.B.A. for trigger).
3. Play back the 2-nd portion (Monoscope 2) of the alignment tape (VFM8180HADH).
4. Adjust the Horizontal Position Screw of A/C head so that the RF signal becomes maximum level as shown in Figure M30.

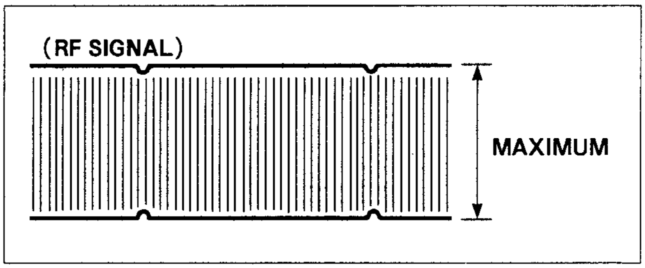


Figure M30

3-6-8. ADJUSTMENT OF INCLINED BASE (T)

≪ TOOL ≫

Check Light ··VFK0948
Screwdriver (+) ·························Purchase locally
VHS Video Tape····························180min. tape

1. Play back the beginning portion of 180 minute normal cassette tape and confirm that waving or filling of P3 post is as shown in Figure M31-A.

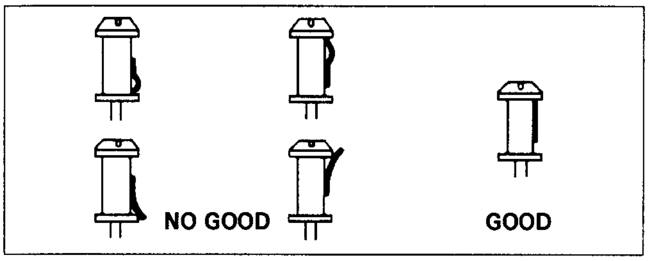


Figure M31-A

2. If there are waving at the lower and upper edge of the P3 post, Adjustment the inclined base of P3 post as shown in Figure M31-B.

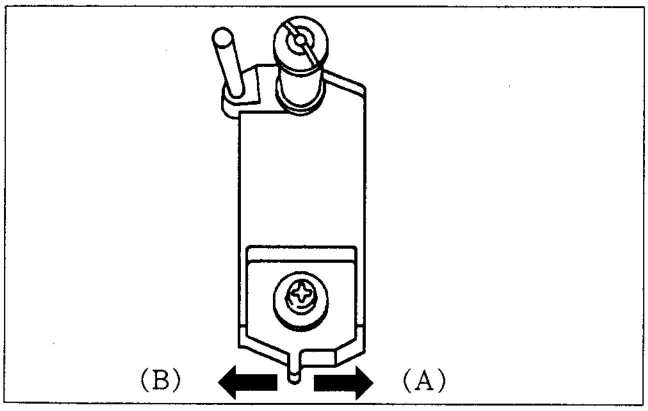


Figure M31-B

[When the inclined base is adjust to an arrow direction (B) tape becomes to lower edge.]

3. Confirm that tape position at the P3 post is upper reference. If it is so tighten the screw as shown in Figure M31-A.
4. Confirm that the there are no tape waving at the upper edge of the P2 and P3 posts. If there is tape waving repeat steps 2 ~ 3.

Note: After completion of the inclined base, the tapeinterchargability and A/C head adjustments should be performed.

3-6-9. ADJUSTMENT OF THRUST GAP

1. Turn the thrust adjustment screw clockwise to until the capstan rotor just separate from the capstan stator whit rotating the capstan rotor by hand.
2. Turn the thrust adjustment screw clockwise to 180 degrees from paint at step 1.
3. Set the 2 oil seal to edge of the capstan housing as shown in Figure M32.

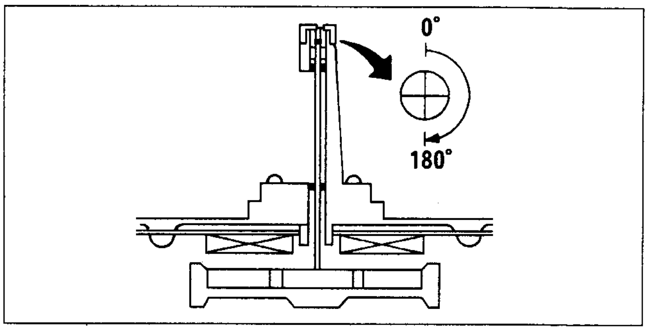


Figure M32

3-6-10. ADJUSTMENT OF FG GAP

≪ TOOL ≫

Fine Adj. screwdriver·································VFK0330
Screwdriver ····································Porchase loclly

≪ SPEC ≫

0.13mm 0.02mm

1. Loosen screw (Q) and set the Fine Adjustment screw driver in the hole on the Capstan Stator Unit.
2. Adjust the gap between FG head and the Capstan Stator unit.
3. After adjustment tighten a screw (Q).

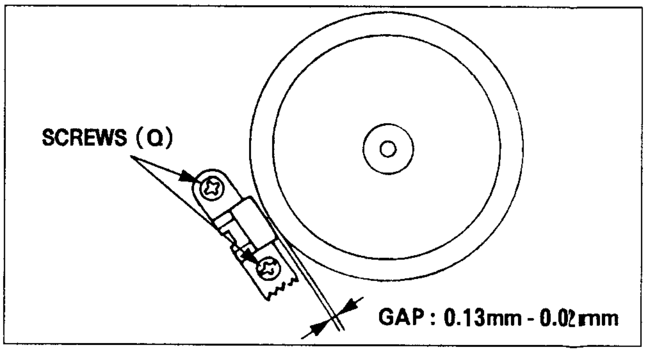


Figure M33-A

Note: After adjust FG head gap, FG output level confirmation must be required.
Do not touch the surface of rotor and keep any magnetizable material away.

CONFIRMATION OF FG OUTPUT LEVEL

1. Connect a oscilloscope to CAP FG output.(P27023)
2. Confirm that FG output level is within specification during PLAY/REC or PLAY mode.
3. If FG output level is out of specification Readjust the step 1 to 3 of FG GAP Adjustment.

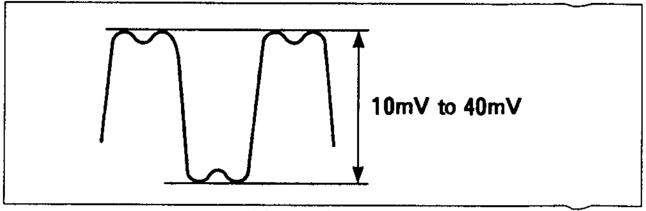


Figure M33-B

3-6-11. MEASUREMENT AND ADJUSTMENT OF BACK TENSION

≪ TOOL ≫

Back Tension Meter ································VFK0132
VHS Cassette Tape (180min. tape except S-VHS tape)

A. FWD TENSION ADJUSTMENT

≪ SPEC ≫

23g ~ 27g

1. Play back the cassette tape from the beginning and wait until the tape movement get the stabilization (for approx. 10 to 20 seconds).
2. Pull the Impedance Roller in the direction indicated the arrow in Figure M34-A secure it with a piece of adhesive tape.
3. Insert the Back Tension Meter into the path of a tape, and measure the back tension.
4. If it is out of specification, replace the Tension spring.

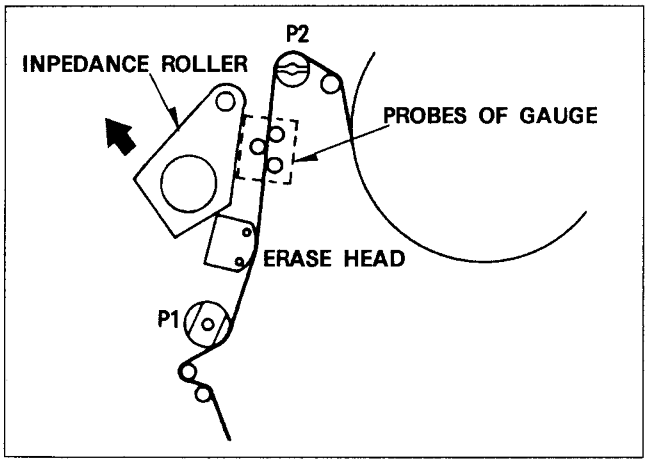


Figure M34-A

B. REV TENSION ADJUSTMENT

≪ SPEC ≫

30g ~ 60g

1. Play back the cassette tape on SP Reverse Play mode from the beginning and wait until the tape movement get the stabilization (for approx. 10 to 20 seconds).
2. Pull the Impedance Roller in the direction indicated by the arrow in Figure M34-A secure it with a piece of adhesive tape.
3. Insert the Back Tension Meter into the path of a tape, and measure the back tension.
4. If it is out of specification, replace the Tension spring.

Note: While measuring, make sure that the three probes of the meter are all in good contact with the tape.
As the tension meter is very sensitive, we recommend taking 3 separate readings.

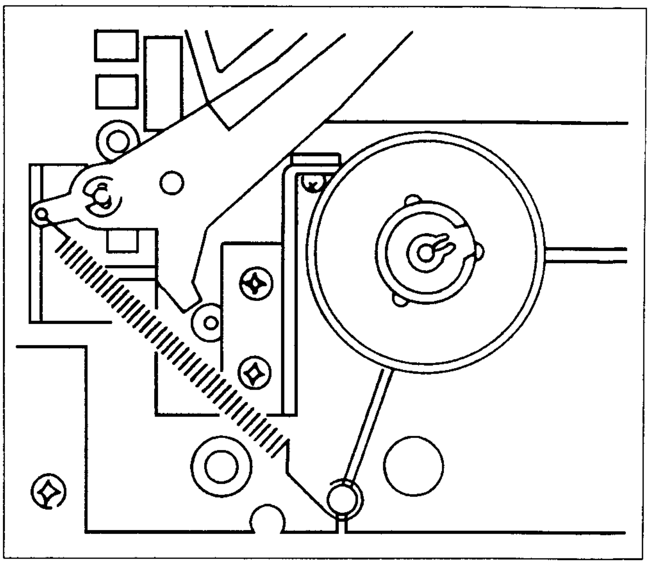


Figure M34-B

3-6-12. HEIGHT ADJUSTMENT OF THE REEL TABLES

≪ TOOL ≫

Post Adjustment Plate ·····························VFK1012
Reel Table Height Gauge ··························VFK0190

≪ SPEC ≫

0 ~ 0.15mm

1. Remove the cassette compartment.
2. Place the post Adjustment Plate on the reel tables.
3. Place the Reel Table Height Gauge on the plate so that the scraper of the gauge touches the cut- out portion of the plate, then set the gauge to zero 0 as shown in Figure M35-A.

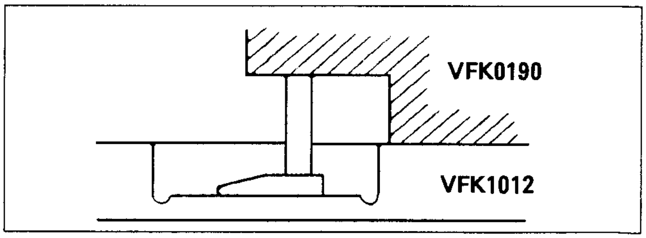


Figure M35-A

4. Measure the height of the top surface of either Reel table and note the difference in height from the plate cut-out (Figure M35-A and M35-B). Repeat this procedures for the other Reel Table.

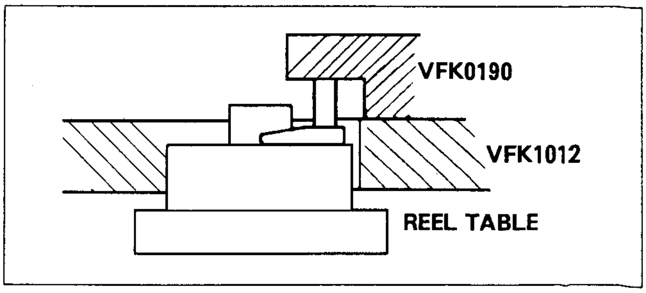


Figure M35-B

5. If the difference of Supply Reel table is more than 0.15mm higher or lower, replace the Supply Reel table. When the difference of Take Up Reel table is more than 0.15mm higher or lower, adjust nut (A)(Figure M35-C) so that measurement becomes the spec. If you can not adjust to the spec., replace Take Up Reel table.

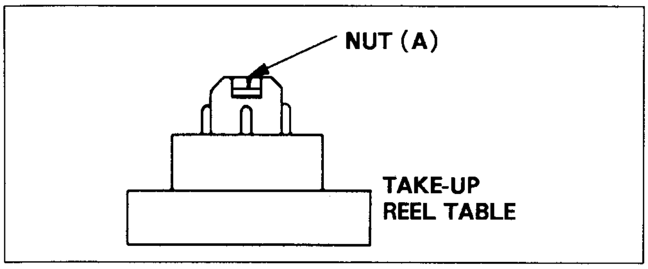


Figure M35-C

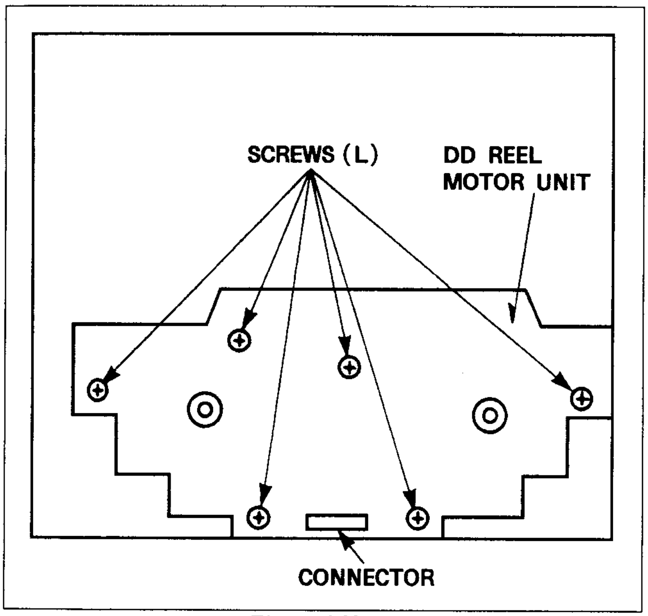


Figure M35-D

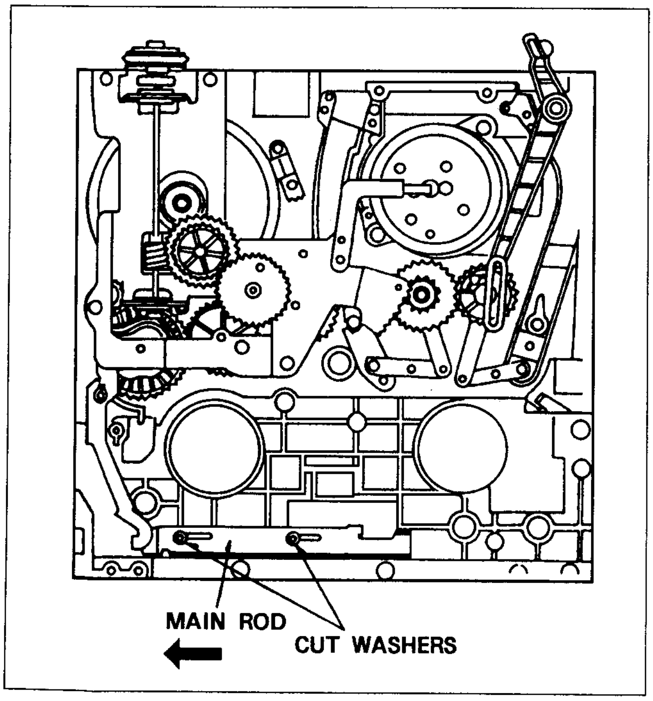


Figure M35-E

Note: When replacing the tables, the DD Reel Unit needs to be removed from the chassis. Remove 6 screws and carefully lift it out as shown in Figure M35-D. When assembling the DD Reel Unit, slide a Main Rod to far left side by rotating the Center Gear, and then screw the 6 screws.

3-6-13. MEASUREMENTAND ADJUSTMENT OF THE BRAKE TORQUE

≪ TOOL ≫

Torque Gauge	VFK0133
Adaptor for Gauge	VFK0134

1. Remove the top cover and the cassette compartment.
2. Attach the adapter to the torque gauge and place the deck in STOP mode (Sub loading mode).
3. Place the torque gauge on the reel table as shown in Figure M33-A. The weight of the gauge should not rest on the reel table.
4. Turn the torque gauge in the direction indicated in Figure M33-B until the brake begins slipping and read the gauge.

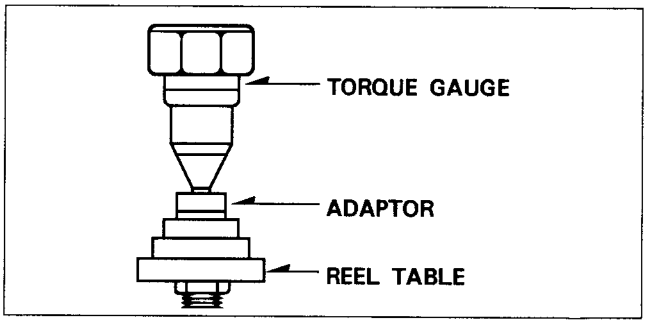
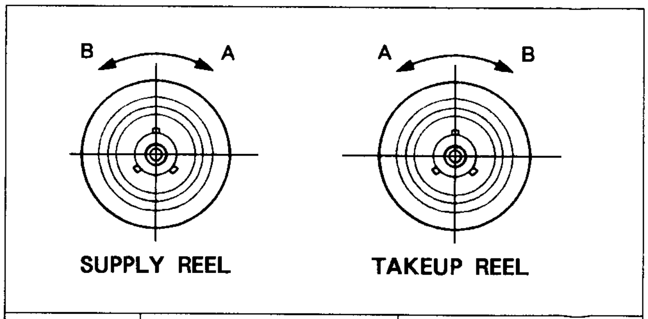


Figure M33-A



	A	B
Take up	more than 550 g-cm	more than 50 g-cm
Supply		more than 50 g-cm

Figure M33-B

5. If it is out of specification, replace the Brake Spring.

Note: If the proper brake torque cannot be obtained by replacing the Brake Spring, clean thbraking surface of the reel table with a soft cloth and re-measure the brake torque. If its still out of specification, replace the Main Brake (S) or (T) Unit.

3-6-14. PRESSING FORCE CONFIRMATION OF PRESSURE ROLLER UNIT

≪ **TOOL** ≫

Fan Type Tension Gauge ··························VFK66

VHS 120min, Cassette Tape

≪ **SPEC** ≫

1050g ± 230g

1. Remove the Cassette Compartment.
2. Play back the end portion of VHS (120min.) tape.
3. Set the Fan Type Tension Gauge to the part (A) of Pinch Roller Unit.
4. Press the Arm with the Gauge, in the direction indicated by the arrow as show in Figure M37.
5. Adjust the Solenoid Base so that the reading of the Tension Gauge is 1050g ± 230g at the moment of the tape running stop.
6. If it is out of specification, replace the Tension spring.

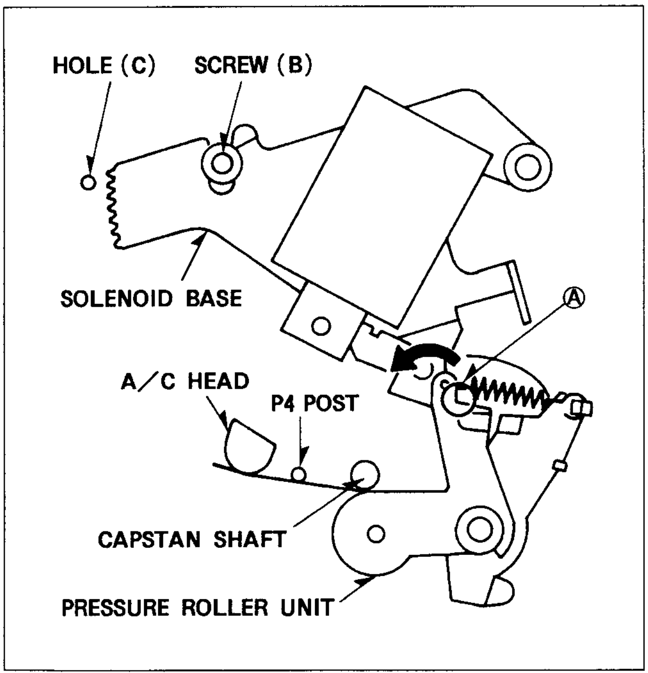

HOLE (C)
SCREW (B)
SOLENOID BASE
Ⓐ
A/C HEAD
P4 POST
CAPSTAN SHAFT
PRESSURE ROLLER UNIT

Figure M37

3-6-15. ADJUSTMENT OF REV TENSION SENSOR POSITION

≪ **TOOL** ≫

Tension Sensor Adj. Fixture······················VFK0806

Tension Post Adj. Plate ··························VFK0236

Fine Adj. Screwdriver ······························VFK0330

Digital Volt Meter   Purchase locally

≪ **SPEC** ≫

2.3V ~ 2.7V

Note: Assemble a Tension Sensor Adjustment Fixture (VFK0806) and a Tension Post Adj. Plate (VFK0236) as shown in Figure M38-A.

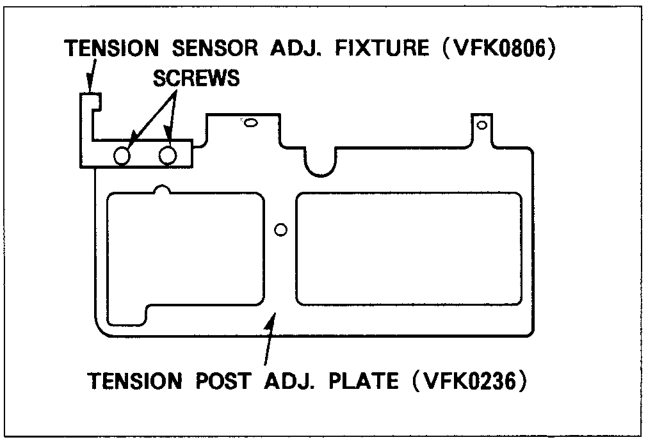

TENSION SENSOR ADJ. FIXTURE (VFK0806)
SCREWS
TENSION POST ADJ. PLATE (VFK0236)

Figure M38-A

1. Remove the Top Plate and Cassette Holder Unit. (refer to Disassemble Procedures)
2. Disconnect the 4pin and 2pin flat wire to the pin 3 and 4 of the connector P1508.
3. Connect two wires of 4pin flat wire to the pin 3 and 4 of the connector P1508 as shown in Figure M38-B.

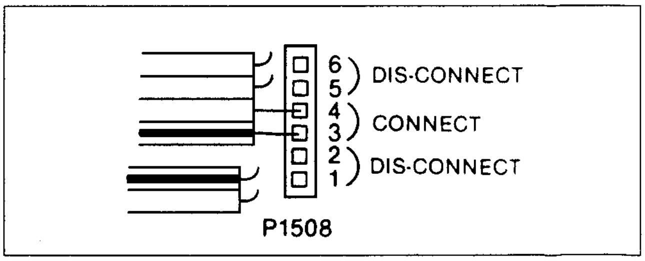

6
5
DIS-CONNECT
4
3
CONNECT
2
1
DIS-CONNECT
P1508

Figure M38-B

4. Push the Sub Wiper Arm (R) to direction of Cassette loading. Then the Sub Wiper Arm (R) goes down it self and mode of machine change to STOP.
5. Turn the Power switch off.
6. Remove the Cassette Compartment (refer to Disassembly Procedures).
7. Connect the V.T.V.M. of D.V.M. to TP2501 on the SERVO/SYSCON C.B.A.
8. Place the Tension Post Position Adjustment Plate with the Fixture over the reel tables as shown in Figure M38-C.

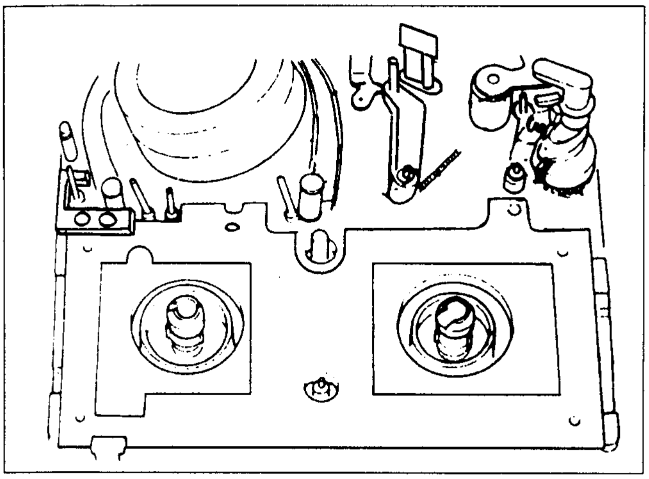


Figure M38-C

9. Turn the Power switch on.
10. Slightly loosen 2 screws (C). Insert a Fine Adj. Screwdriver in the hole (D)(Figure M38-D).

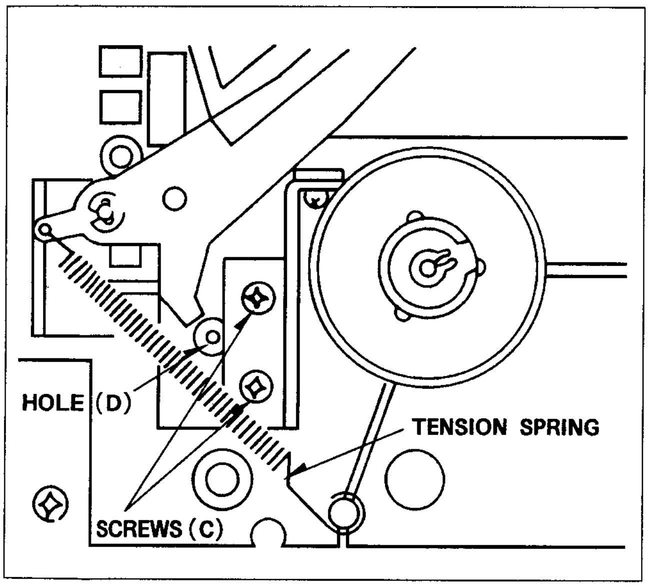


Figure M38-D

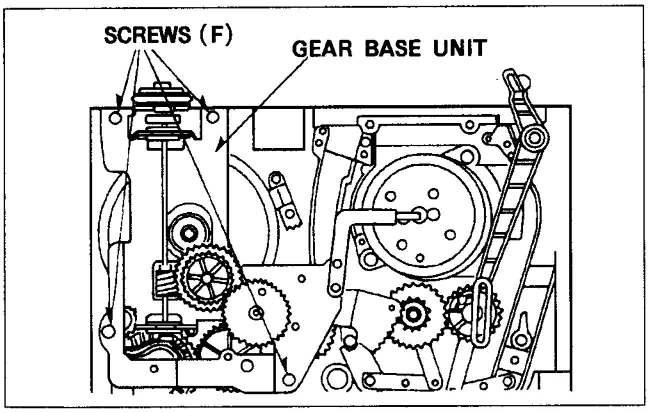
11. Press the PLAY button.
12. Adjust the Rev Sensor Position so that measurement becomes D.C. 2.3V~2.7V.
13. Tighten the 2 Screws (C).
14. Remove the Tension Sensor Fixture.
15. Reinstall the Cassette Compartment.
16. Confirm Playback picture (Rev Playback mode, Playback mode etc.)

3-7. ASSEMBLY AND ADJUSTMENT PROCEDURES OF MECHANISM

The mechanism of this model is mostly engaged to the System Control Circuit, through the mode select switch. Therefore the relation between the mode select switch and the cam gear decides all further mechanical movement of the mechanical parts such as levers, gears, rollers and so on. If these parts are not fixed properly, the unit will be unloaded or compulsorily stopped. And it will result being damaged at any mechanical or electrical parts. The overall mechanical condition (alignment) of bottom and top view are shown in Figure M39-B and Figure M39-C. This mechanical adjustment is performed in the STOP mode.

3-7-1. CONFIRMATION OF ALIGNMENT CONDITION

1. Remove the Loading Belt.
2. Unscrew 4 screws (F) and remove the Gear Base Unit. (Figure M39-A)
3. Turn the Center Gear to counter-clockwise until 2 big holes of Center Gear align with 2 big holes of Retainer Gear and Ring Gear and Chassis as shown in Figure M39-C.


SCREWS (F)
GEAR BASE UNIT

Fiugre M39-A

4. Identification hole on the Mode Select Switch at 6 oclock position and aligned with small hole on Pinch Cam as shown in Figure M39-B.
5. P5 Arm is completely loading position and the Inclined Base (S) and (T) are completely unloading position.
6. Small hole on Sub Cam Gear should align with small hole on the Connection Gear and rectangular mark on the Connection Gear should be at a 3 oclock position.
7. Pressure Roller Unit is UP position.

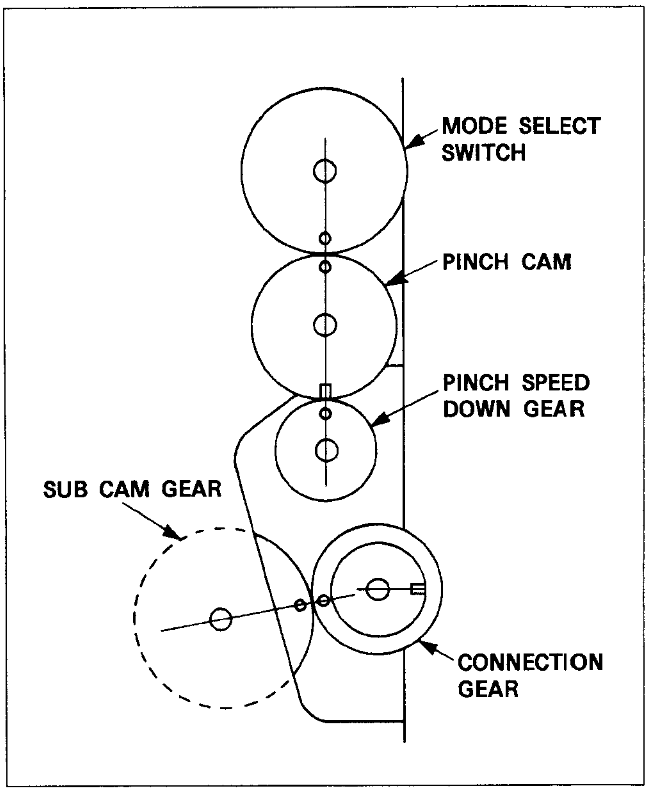

MODE SELECT SWITCH
PINCH CAM
PINCH SPEED DOWN GEAR
SUB CAM GEAR
CONNECTION GEAR

Figure M39-B Top View of Overall IQ-Mechanical Condition

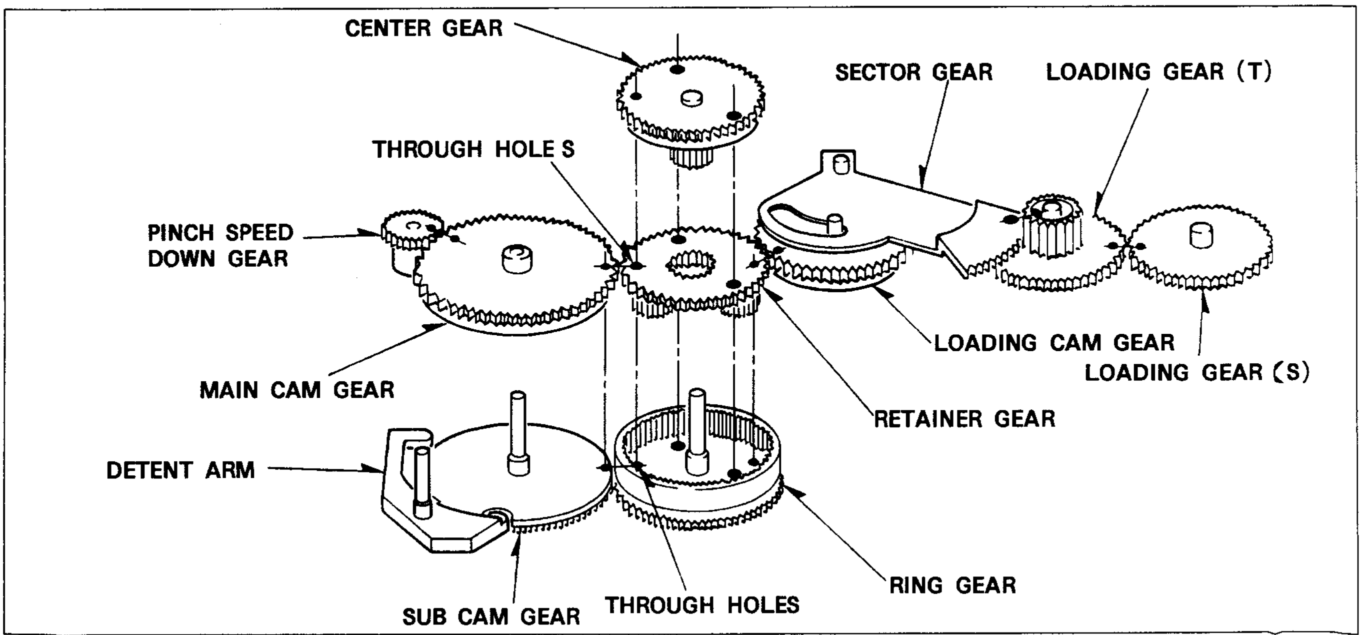

CENTER GEAR
SECTOR GEAR
LOADING GEAR (T)
THROUGH HOLE S
PINCH SPEED DOWN GEAR
LOADING CAM GEAR
LOADING GEAR (S)
MAIN CAM GEAR
RETAINER GEAR
DETENT ARM
RING GEAR
SUB CAM GEAR
THROUGH HOLES

Figure M39-C Bottom View of Overall Mechanical Condition

3-7-2. ASSEMBLY PROCEDURES OF SUB CAM GEAR RING GEAR AND DETENT ARM

1. Install the Ring Gear so that the two holes on the Ring Gear align with the two holes on the chassis as shown in Figure M40.
2. Install the Sub Cam Gear so that the large hole on Sub Cam Gear aligns with the hole on chassis.
   Also the small hole (located just outside of large hole) on Sub Cam Gear should align with the hole on Ring Gear as shown in Figure M40.
3. Confirm that the small hole on Sub Cam Gear is aligned with the small hole on Connection Gear as shown in Figure M39-B (In case of the Connection Gear is already installed).
4. Install the Detent Arm and make sure Detent Arm seats perfectly in detent of Sub Cam Gear as shown in Figure M40.

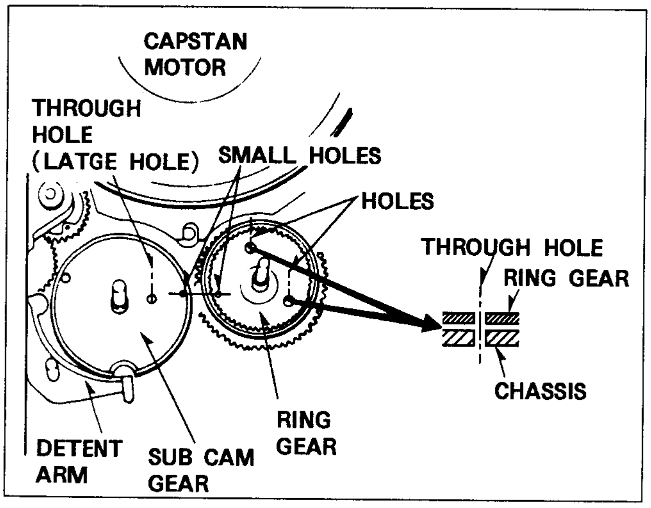

CAPSTAN MOTOR
THROUGH HOLE (LATGE HOLE)
SMALL HOLES
HOLES
THROUGH HOLE
RING GEAR
CHASSIS
RING GEAR
DETENT ARM
SUB CAM GEAR

Figure M40

3-7-3. ASSEMBLY PROCEDURES OF MAIN CAM GEAR AND PINCH SPEED DOWN GEAR

1. Install the Main Cam Gear on to the Sub Cam Gear so that the small hole on the Main Cam Gear aligns with small hole on the Ring Gear as shown in Figure M41.
2. Insert a retaining ring.
3. Install the Pinch Speed Down Gear from top side of chassis so that the small hole on the Main Cam Gear as shown in Figure M41.

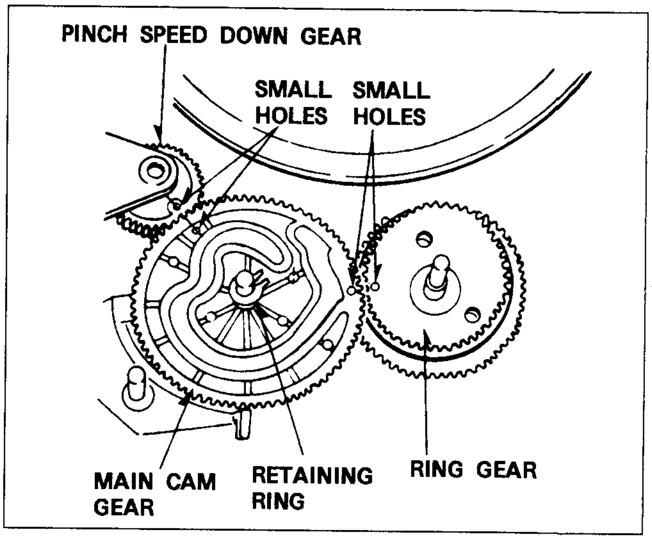

PINCH SPEED DOWN GEAR
SMALL HOLES
SMALL HOLES
MAIN CAM GEAR
RETAINING RING
RING GEAR

Figure M41

3-7-4. ASSEMBLY PROCEDURES OF LOADING CAM GEAR AND RETAINER GEAR

1. Install the Retainer Gear onto the Ring Gear so that the two holes on the Retainer Gear align with the two holes on the Ring Gear, at this time, small hole on the Main Cam Gear should aligns with small hole on the Retainer Gear as shown in Figure M42.
2. Install the Loading Cam Gear so that the small hole which is directly outside of the large hole on the Loading Cam Gear is aligned with the outside hole of the Retainer Gear as shown in Figure M42.

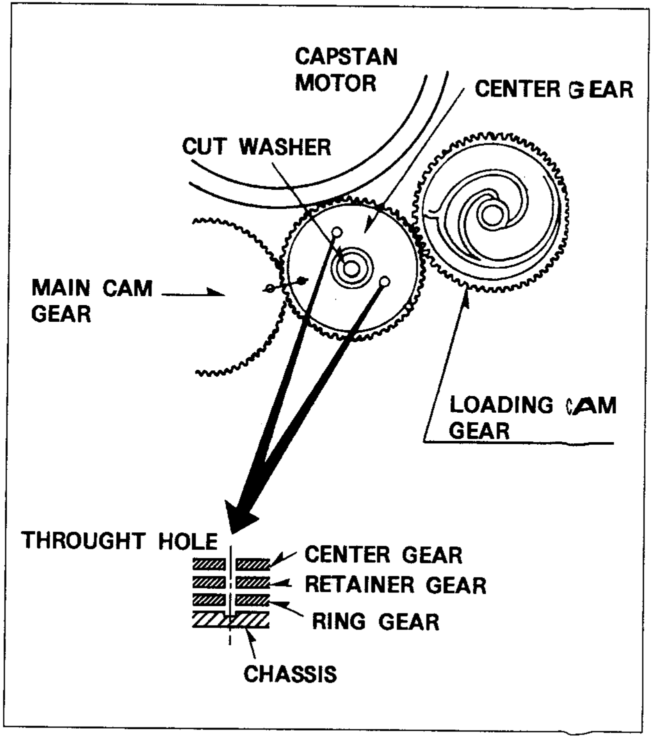

CAPSTAN MOTOR
CENTER GEAR
CUT WASHER
MAIN CAM GEAR
LOADING CAM GEAR
THROUGHT HOLE
CENTER GEAR
RETAINER GEAR
RING GEAR
CHASSIS

Figure M42

3-7-5. ASSEMBLY PROCEDURES OF CENTER GEAR

1. Softly Install the Center Gear onto the Retainer Gear so that the two holes in the Center Gear align with the holes on the Retainer Gear, then install the cut washer as shown in Figure M43.

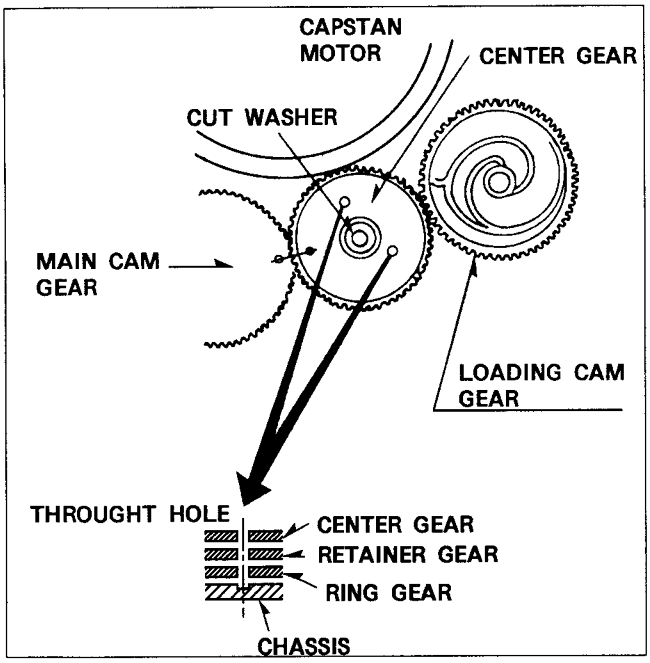

CAPSTAN MOTOR
CENTER GEAR
CUT WASHER
MAIN CAM GEAR
LOADING CAM GEAR
THROUGHT HOLE
CENTER GEAR
RETAINER GEAR
RING GEAR
CHASSIS

Figure M43

3-7-6. ASSEMBLY PROCEDURES OF MAIN LEVER AND CAM FOLLOWER ARM UNIT

1. Install the Main Rod and then insert the cut washers as shown in Figure M44.
2. Install the Cam Follower Arm so that the pin of the Cam Follower Arm inserts into the groove of the Main Cam Gear and also inserts into the slot on the Main Rod, insert the retaining ring.

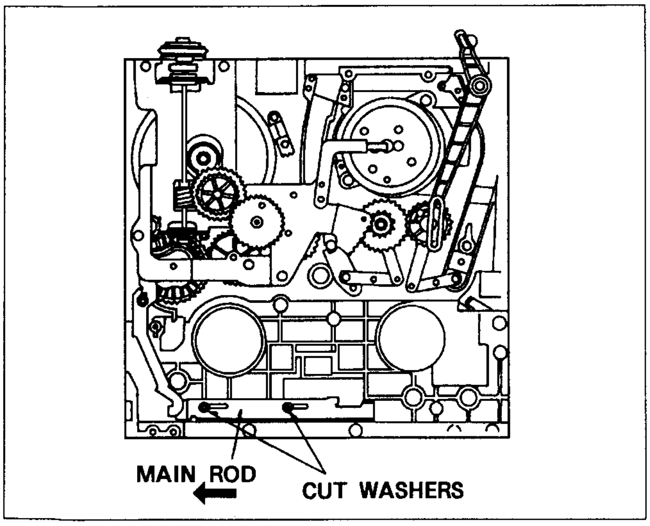

MAIN ROD
CUT WASHERS

Figure M44

3-7-7. ASSEMBLY PROCEDURES OF LOADINGGEAR (T), LOADING GEAR (S), SECTOR GEAR

1. Set the P2 and P3 posts to fully unloaded position, then install the Loading Gear (T) and (S) so that the outer hole on the Loading Gear (T) aligns with the outer hole on the Loading Gear (S) as shown in Figure M45-A.
2. Install the Sector Gear so that the outer hole in the Sector Gear aligns with the projection mark on Loading Gear (T).
3. Insert 3 retaining rings as shown in Figure M45-B.

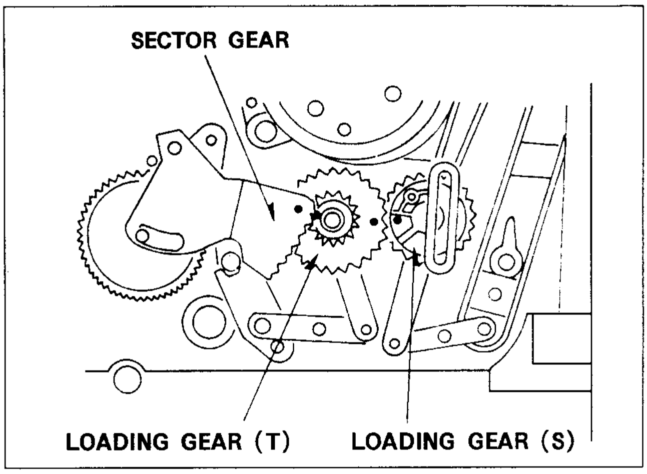

SECTOR GEAR
LOADING GEAR (T)
LOADING GEAR (S)

Figure M45-A

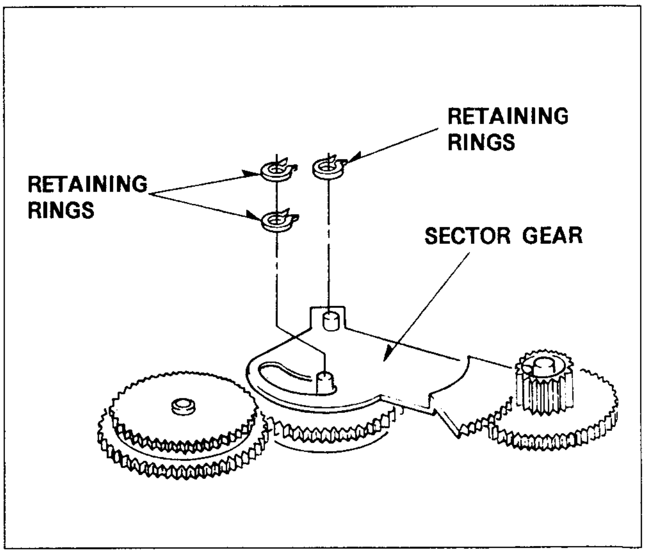

RETAINING RINGS
RETAINING RINGS
SECTOR GEAR

Figure M45-B

3-7-8. ASSEMBLY PROCEDURES OF CONNECTION GEAR

Note: Before assembling, Sub Cam Gear position (and positions of bottom side gears) must be correct as described before (Figure M39-B).

1. Install the Connection Gear so that the small hole on the Connection Gear aligns with the small hole on the Sub Cam Gear as shown in Figure M46.

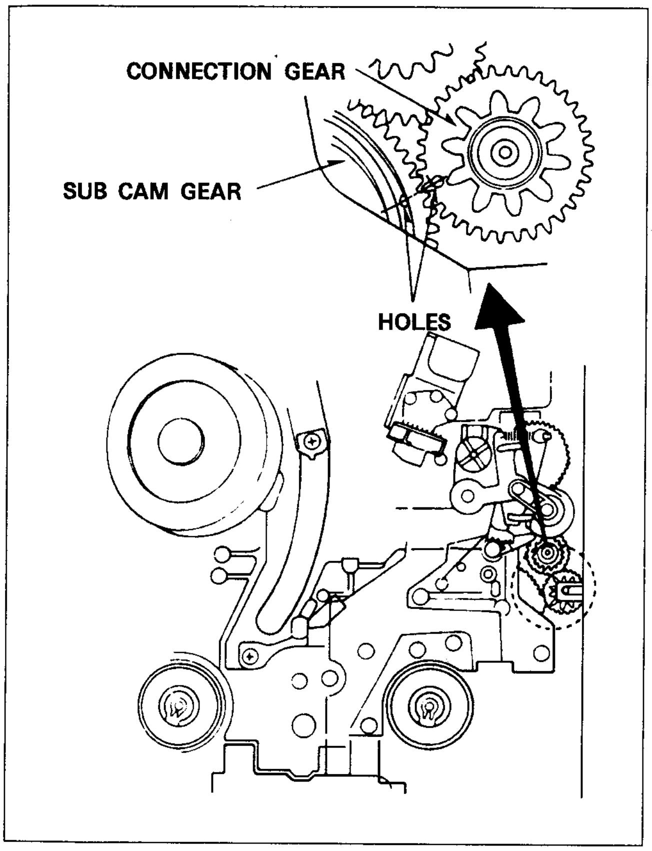

CONNECTION GEAR
SUB CAM GEAR
HOLES

Figure M46

3-7-9. ASSEMBLY PROCEDURES OF MODE SWITCH AND P5 PULL OUT SECTOR GEAR

1. Turn the Center Gear to unloading position.
2. Install the mode Select Switch and tighten the mounting screw, then solder the 5 soldering portions.
3. Install the P5 Pull Out Sector Gear so that the hole of P5 Pull Out Sector Gear aligns with the tip of gear at P5 Arm as shown in Figure M47.

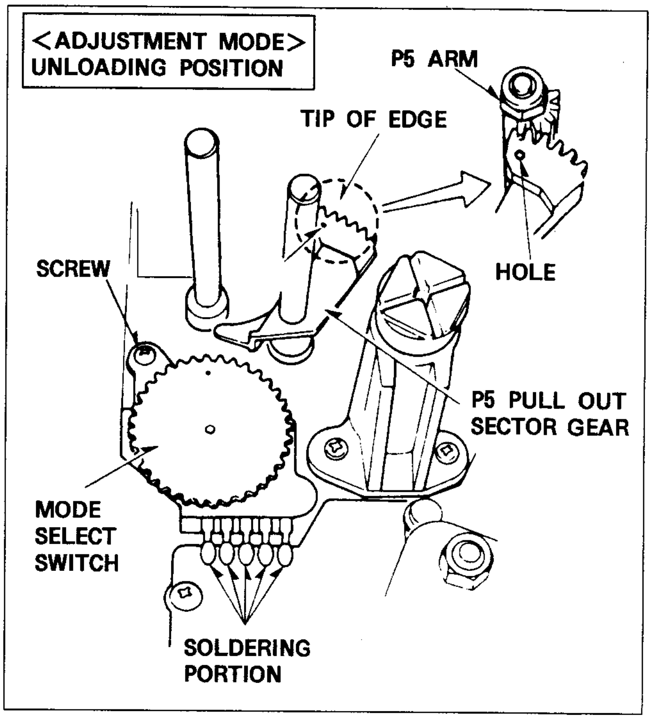

<ADJUSTMENT MODE>
UNLOADING POSITION
P5 ARM
TIP OF EDGE
SCREW
HOLE
P5 PULL OUT SECTOR GEAR
MODE SELECT SWITCH
SOLDERING PORTION

Figure M47

3-7-10. ASSEMBLY PROCEDURES OF PINCH CAM AND PRESSURE ROLLER UNIT

1. Install the Pinch Cam while pushing the P5 post forward. The gear of the Pinch Cam should drop to a seated position. In this position make sure hole in the Mode Select Switch aligns with small hole on the Pinch Cam, also the small rift on the Pinch Cam should align with the hole on the Pinch Speed Down Gear sa shown in Figure M48.
2. Install the Pressure Roller Unit. Make sure the seats perfectly on to the Pinch Cam, then install the Pinch Cam Cap.

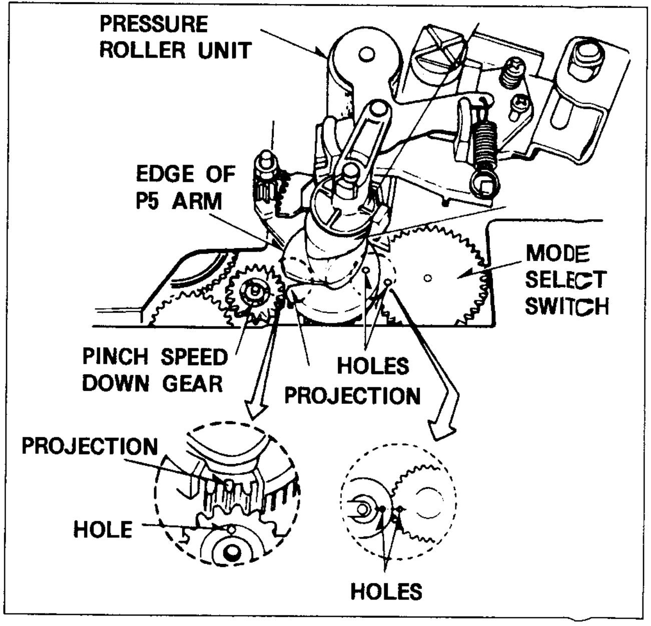

PRESSURE ROLLER UNIT
EDGE OF P5 ARM
MODE SELECT SWITCH
PINCH SPEED DOWN GEAR
HOLES
PROJECTION
PROJECTION
HOLE
HOLES

Figure M48

3-7-11. ASSEMBLY PROCEDURES OF GEAR BASE UNIT

1. Install the Gear Base Unit and screw 4 screws (F) as shown in Figure M49.

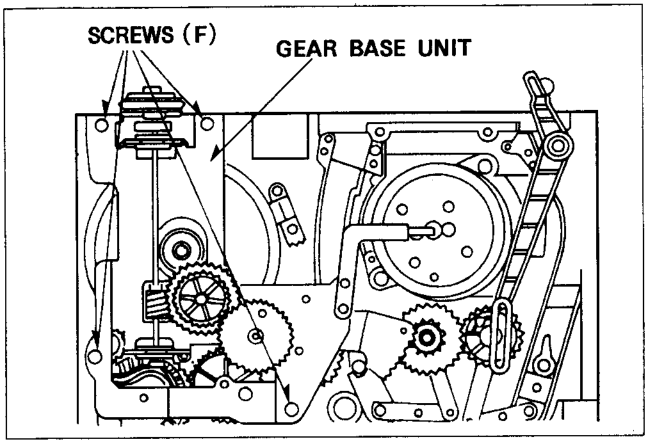


Figure M49

Note: The Gear Base Unit has 2 gears and worm shaft. There is no adjustment for these gears.

3-6-12. REINSTALLATION OF CASSETTE COMPARTMENT

When you reinstall the cassette compartment, the position adjustment of mechanism is necessary for correct operation, as follows.

A. Confirmation of STOP Alignment Condition

1. Turn the Worm shaft counter-clockwise or clockwise until mechanism is placed into the Alignment Condition as following conditions.

   a) Identification hole on the Mode Select Switch at 6 oclock position and aligned with small hole on Pinch Cam. (Figure M48)
   b) P5 Arm is completely loading position and the Inclined Base (S) and (T) are completely unloading position.
   c) Small hole on Sub Cam Gear should align with small hole on the Connection Gear (Figure M46) and rectangular mark on the Connection Gear should be at a 3 oclock position.
   d) Pressure Roller Unit is UP position.

B. Confirmation of Cassette Compartment

1. Confirm that the Cassette Compartment is aligned properly. In the EJECT position (Cassette Holder up and advanced to the front) the two V-shaped marks on the slide switch should align. The slide switch is located on the right side of the Cassette Assembly towards the rear as shown in Figure M50A.

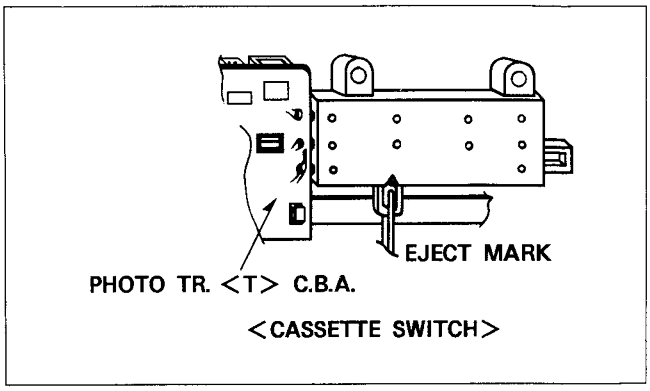


Figure M50-A

2. Remove 3 screws (A) as shown in Figure M50-B.
3. Take the top plate out.
4. Take the cassette Holder unit out as shown in Figure M50-C.

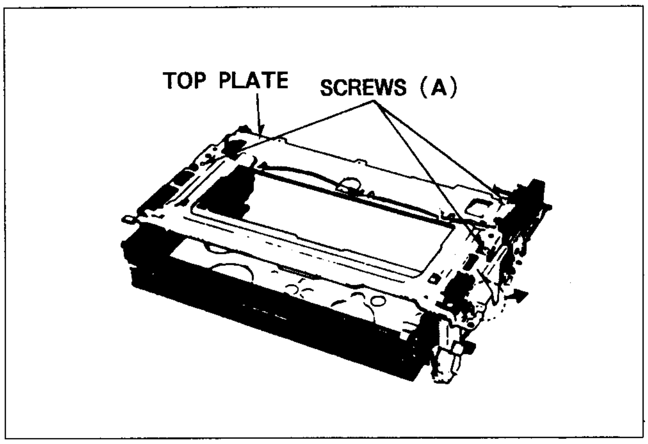


Figure M50-B

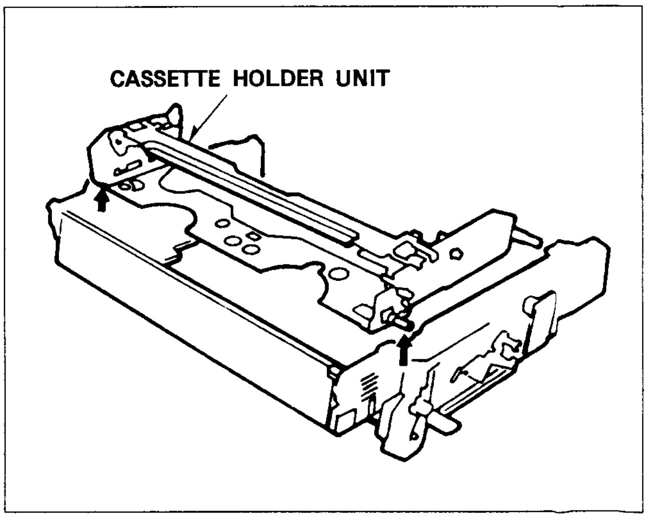


Figure M50-C Removal of Cassette Holder Unit

5. Press the sub wiper arm (R) to direction indicated by arrow so that the sub wiper arm (R) comes to cassette down position (STOP) completely as shown in Figure M50-D and keepit. In this position, the arrow on the Sub Wiper Arm (R) should align with the arrow on the Rack (A)(1) Unit as shown in Figure M50-E.

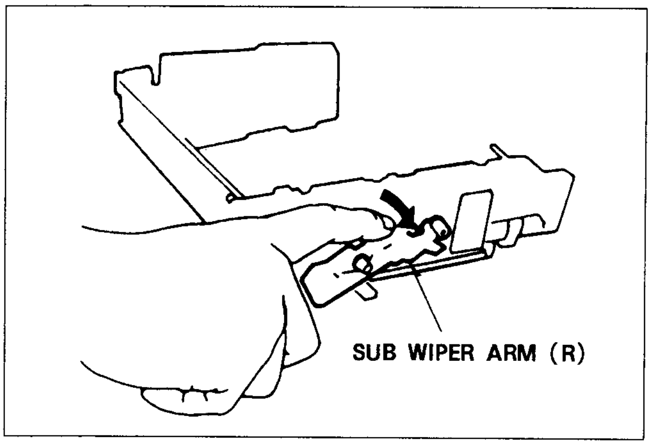

SUB WIPER ARM (R)

Figure M50-D

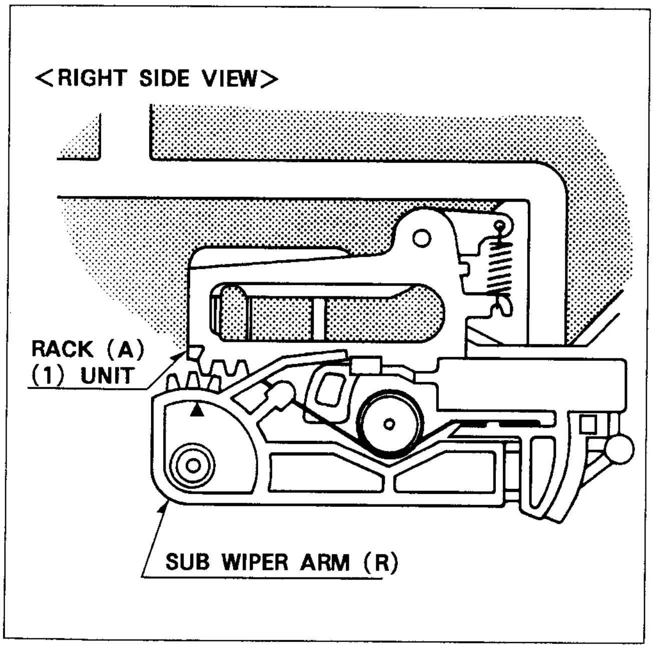

<RIGHT SIDE VIEW>
RACK (A) (1) UNIT
SUB WIPER ARM (R)

Figure M50-E

6. If the Cassette Compartment is not aligned, realignment may be accomplished by pushing the Main Shaft Unit to the right (gently) and pushing the front of the Rack Unit to the left. This procedure will disengage the teeth of the Rack Gear from the teeth on Sub Wiper Arm assembly.
   This will allow you to change the positional relationship between the Sub Wiper Arm Assembly and Rack Unit. This procedure is best attempted in the EJECT position. Once this is done, check for smooth operation of the compartment by inserting a cassette, and pushing in, and down.

C. Installation Procedure

1. Bring loading mechanism to the STOP (Sub-load) position.
2. Confirm that the chassis is aligned properly for Alignment Condition as shown in Figure M39-B and M39-C.
3. Put the Sub Wiper Arm (R) in its full down position (Sub Wiper Arm should rest on plastic protrusion on the bottom of the right side plate).
4. Install the cassette compartment (without cassette holder) to chassis so that the rectangular marking (or slot) on the connection gear should be line up with first tooth of the Rack Gear as shown in Figure M50-F and M50-G.

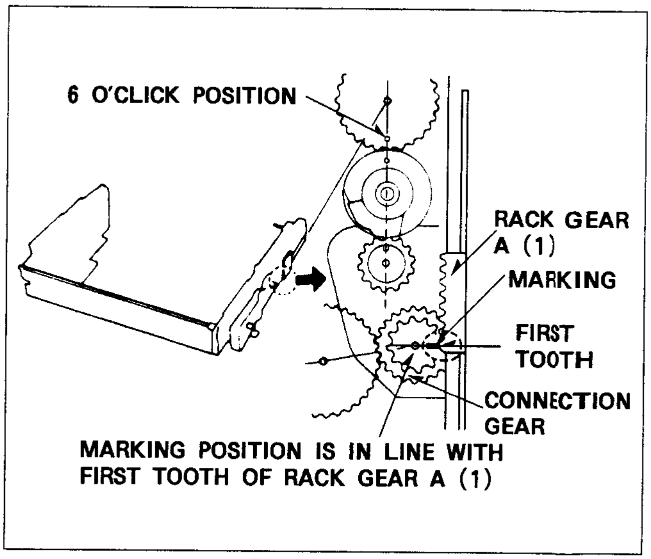

6 O'CLICK POSITION
RACK GEAR A (1)
MARKING
FIRST TOOTH
CONNECTION GEAR
MARKING POSITION IS IN LINE WITH FIRST TOOTH OF RACK GEAR A (1)

Figure M50-F

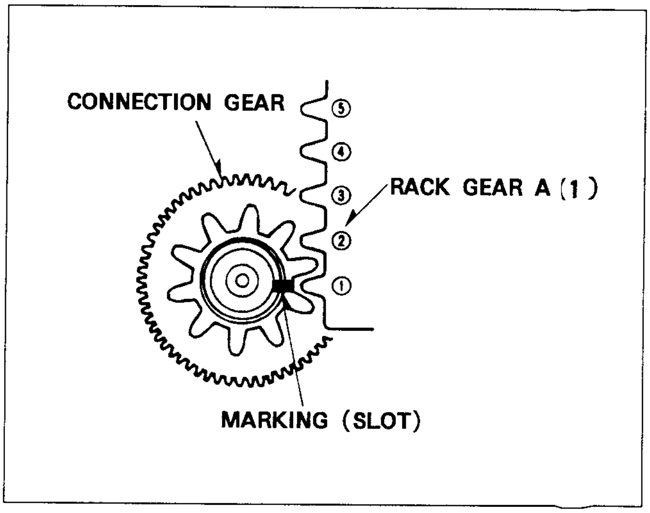

CONNECTION GEAR
⑤
④
③
②
①
RACK GEAR A (1)
MARKING (SLOT)

Figure M50-G

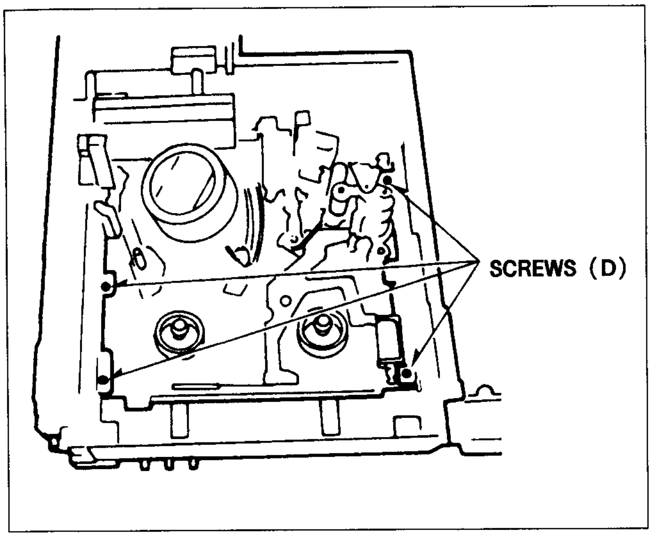


Figure M50-H

5. Tighten the 4 screws (D) as shown in Figure M50-H.
6. Manually move the loading mechanism toward the EJECT position.
7. Stop the manual eject procedure just before completion, so that the Sub Wiper Arms straight up. This position is also characterized by the channel guides (in the Wiper Arms) being directly under the cut outs on the top of the Cassette Compartment base (Figure M50-I).
8. Install the Cassette Holder Unit in the Cassette Compartment Base. The Cassette holder should drop into place if the Sub Wiper Arms are portioned as called for in step 7.

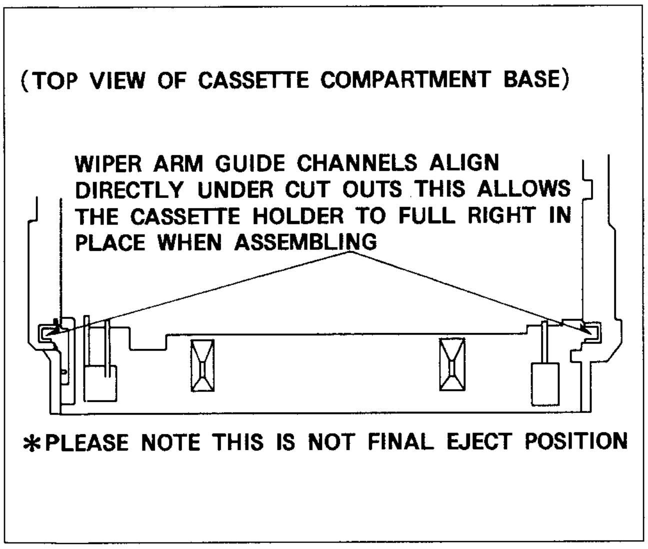

(TOP VIEW OF CASSETTE COMPARTMENT BASE)
WIPER ARM GUIDE CHANNELS ALIGN DIRECTLY UNDER CUT OUTS THIS ALLOWS THE CASSETTE HOLDER TO FULL RIGHT IN PLACE WHEN ASSEMBLING
*PLEASE NOTE THIS IS NOT FINAL EJECT POSITION

Figure M50-I

Note: For proper front loading, the guide pin on the opener lever should follow the upper track of the right side panel as shown in Figure M50-J.

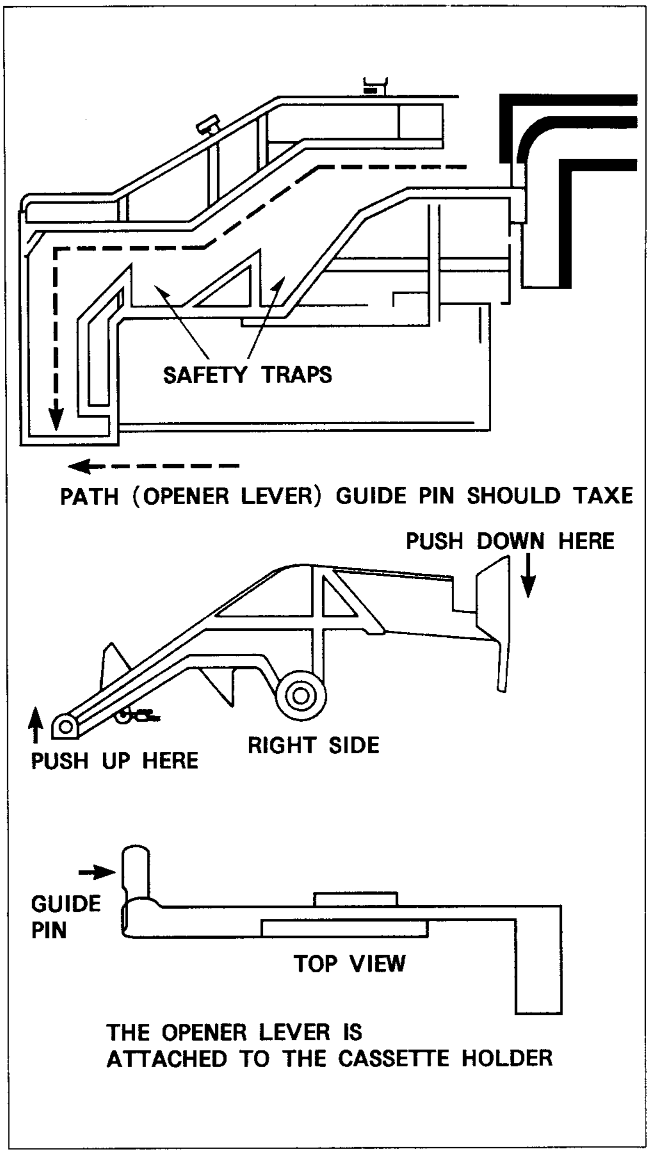

SAFETY TRAPS
PATH (OPENER LEVER) GUIDE PIN SHOULD TAXE
PUSH DOWN HERE
PUSH UP HERE
RIGHT SIDE
GUIDE PIN
TOP VIEW
THE OPENER LEVER IS ATTACHED TO THE CASSETTE HOLDER

Figure M50-J Right Side Plate

9. Install the top plate on the Cassette Compartment Base and tighten the 3 screws (A) as shown in Figure M50-B.
10. Manually confirm that front loading and main loading run smoothly. Also confirm EJECT before power is applied.

MEMO

SECTION 4

ELECTRICAL ADJUSTMENTS

CONTENTS

4-1. TEST & SERVICE EQUIPMENT 4-3

4-2. HOW TO READ THE ADJUSTMENT PROCEDURE TABLE 4-3

4-3. SERVO SECTION 4-4

- 4-3-1. PG Shifter Adj. 4-4
- 4-3-2. Tracking Fix Adj. 4-4

4-4. VIDEO REC SECTION 4-4

- 4-4-1. Peak Adj. 4-4
- 4-4-2. Supper Limiter Adj. 4-5
- 4-4-3. FSC Adj. 4-5
- 4-4-4. VCO Adj. 4-6
- 4-4-5. Pilot Burst Adj. (AG-7700 only) 4-6
- 4-4-6. Composite Level Adj. (AG-7700 only) 4-6
- 4-4-7. EE Y Level Adj Adj. (AG-7700 only) 4-7
- 4-4-8. Rec Sub Emphasis Input Adj. (AG-7700 only) 4-7
- 4-4-9. S-VHS Deviation Adj. (AG-7700 only) 4-7
- 4-4-10. VHS Deviation Adj. (AG-7700 only) 4-8
- 4-4-11. S-VHS White Clip & Dark Clip Adj. (AG-7700 only) 4-8
- 4-4-12. Video Meter Adj. (AG-7700 only) 4-9
- 4-4-13. Chroma Rec Current Adj. (AG-7700 only) 4-9
- 4-4-14. S-VHS Y Rec Current Adj. (AG-7700 only) 4-9
- 4-4-15. VHS Y Rec Current Adj. (AG-7700 only) 4-10

4-5. VIDEO PB SECTION 4-10

- 4-5-1. PB Sub Emphasis Input Level Adj. 4-10
- 4-5-2. S-VHS PB Y Level Adj. 4-11
- 4-5-3. VHS PB Y Level Adj. 4-11
- 4-5-4. Normal Y Level Adj. 4-12
- 4-5-5. Drop Out Adj. 4-12
- 4-5-6. Video Tracking Meter Adj. 4-12
- 4-5-7. PB Output Y Level Adj. 4-13
- 4-5-8. S-VHS PB Frequency Response Adj. 4-14
- 4-5-9. S-VHS SS Frequency Response Adj. 4-14
- 4-5-10. VHS PB Frequency Response Adj. 4-15
- 4-5-11. CNR Y Balance Adj. 4-16
- 4-5-12. CNR Adj. 4-16
- 4-5-13. CAC White Balance Adj. 4-17
- 4-5-14. EE Chroma Level Adj. 4-17
- 4-5-15. VV Chroma Level Adj. 4-18
- 4-5-16. CAC Level Adj. 4-18
- 4-5-17. VV Burst Error Adj. 4-19
- 4-5-18. Burst Level Adj. 4-20
- 4-5-19. PB S-VHS EDIT Y/C Delay Adj. 4-20
- 4-5-20. PB VHS EDIT Y/C Delay Adj. 4-21
- 4-5-21. CAC Y/C Delay Adj. 4-22
- 4-5-22. S-VHS Rec Delay Adj. (AG-7700 only) 4-22
- 4-5-23. VHS Rec Delay Adj. (AG-7700 only) 4-23
- 4-5-24. Artificial V-sync Adj. 4-23

4-6. AUDIO SECTION 4-24

- 4-6-1. Normal Audio Input Level Adj. (AG-7700 only) 4-24
- 4-6-2. Hi-Fi Audio Input Level Adj. (AG-7700 only) 4-24
- 4-6-3. Audio Jack Output Balance Adj. 4-24
- 4-6-4. Audio Level Meter Adj. 4-25
- 4-6-5. Normal Audio PB Frequency Response Adj. 4-26
- 4-6-6. Normal Audio PB Gain Adj. (AG-7700 only) 4-26
- 4-6-7. Normal Audio Erase Current Adj. (AG-7700 only) 4-27
- 4-6-8. Normal Audio Bias Current Adj. (AG-7700 only) 4-27
- 4-6-9. Normal Audio Rec Current Adj. (AG-7700 only) 4-28
- 4-6-10. Normal Audio Time Code Meter Adj. 4-28
- 4-6-11. Hi-Fi Audio Head Switching Shifter Adj. 4-29
- 4-6-12. Hi-Fi Audio Carrier Frequency Adj. 4-29
- 4-6-13. Hi-Fi Audio Deviation Adj. (AG-7700 only) 4-30
- 4-6-14. Hi-Fi Audio Rec Current Adj. (AG-7700 only) 4-30
- 4-6-15. Normal Audio Output Level Adj. (AG-7600 only) 4-30

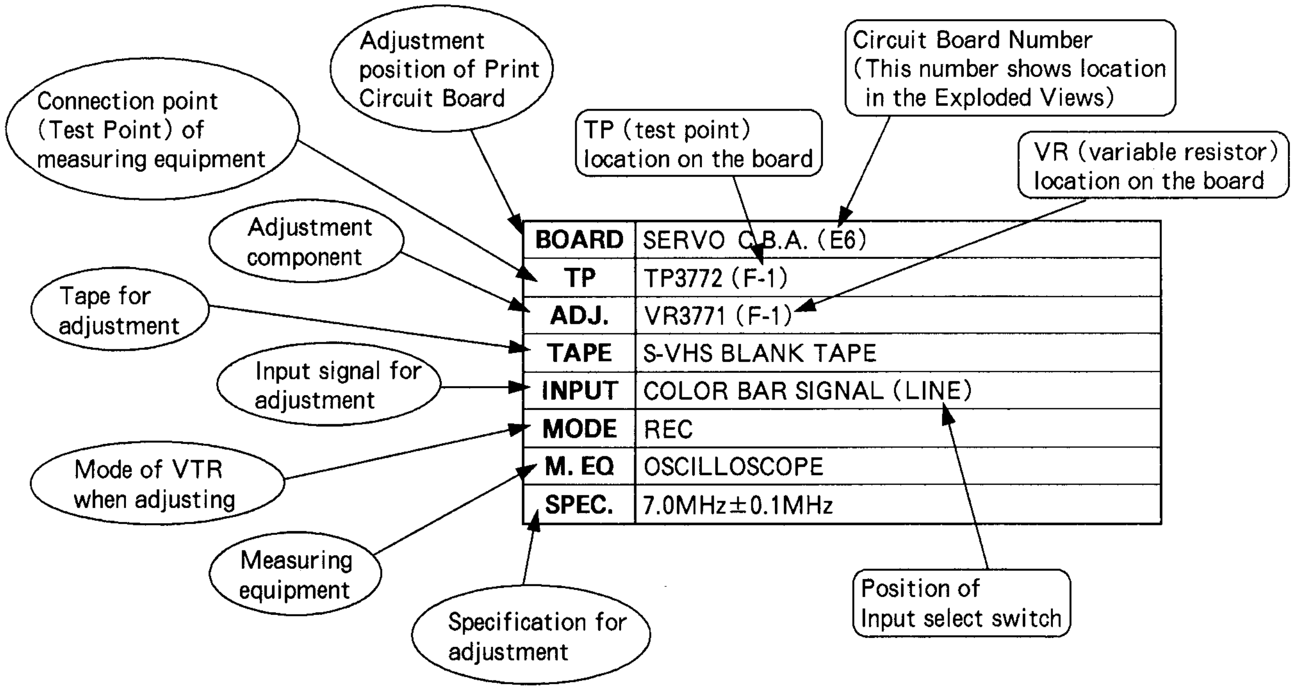
4-7. OTHER SECTION 4-31

- 4-7-1. VITC Mute Pulse Adj (AG-7700 only). 4-31
- 4-7-2. OSD Character Width Adj. 4-31
- 4-7-3. Flying Erase Current Adj. 4-32

4-1. TEST & SERVICE EQUIPMENT

No.	EQUIPMENT	CAPACITY
1	D.V.M. (Digital Volt Meter)	0.001 to 50V
2	Dual-Trace Oscilloscope (with Probes)	0.005 to 50V/div, DC to 100MHz (50MHz)
3	Frequency Counter	0 to 10MHz
4	Sinewave Signal Generator (RC Oscillator)	0 to 10MHz
5	Video Sweep Generator	0 to 10MHz
6	Waveform Monitor	
7	Video Signal Generator (Composite, Y/C)	
8	Vector Scope	
9	Color Monitor TV	
10	VHS Alignment Tape (VFM8080HADH)	
11	Extender Board 100P (VFK0941)	
12	Extender Board 64P (VFK0829)	

4-2. HOW TO READ THE ADJUSTMENT PROCEDURES TABLE


Adjustment position of Print Circuit Board
Circuit Board Number (This number shows location in the Exploded Views)
Connection point (Test Point) of measuring equipment
TP (test point) location on the board
VR (variable resistor) location on the board
Adjustment component
Tape for adjustment
Input signal for adjustment
Mode of VTR when adjusting
Measuring equipment
Specification for adjustment
Position of Input select switch

BOARD	SERVO C.B.A. (E6)
TP	TP3772 (F-1)
ADJ.	VR3771 (F-1)
TAPE	S-VHS BLANK TAPE
INPUT	COLOR BAR SIGNAL (LINE)
MODE	REC
M. EQ	OSCILLOSCOPE
SPEC.	7.0MHz±0.1MHz

4-3. SERVO SECTION

4-3-1. PG SHIFTER ADJ.

BOARD	SERVO & SYSTEM CTL C.B.A. (E3)
TP	TP41003 (H-SW) (G-1): AUDIO (2) C.B.A. TP3004 (VV-Y) (B-1): VIDEO YC C.B.A.
ADJ.	VR2001 (H-5)
TAPE	VFM8180HADH PORTION: 2
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	T=6.5H±0.25H

≪NOTE≫
Tape Interchangeability Adjustment should be always completed before this adjustment.

≪SET UP≫
SYNC: NOR (MENU NO. 1001-00)
FRAME SERVO: OFF (MENU NO. 6005-00)
TRACKING VR: CENTER (FIX)

1. Playback the adjustment tape the portion 2.
2. Connect the oscilloscope to TP3004 for CH-1 and TP41003 for CH-2. (Trigger)
3. Adjust VR2001 so that "T" becomes 6.5H±0.25H as shown in Figure E1.

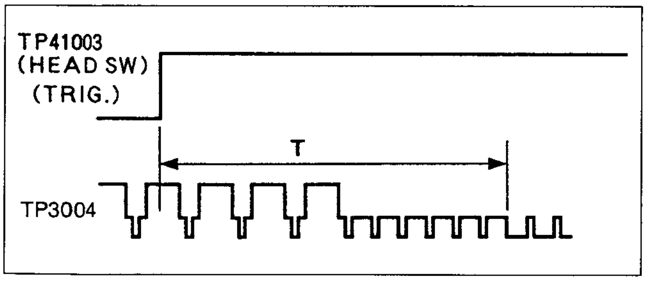


Figure E1

4-3-2. TRACKING FIX ADJ.

BOARD	SERVO & SYSCON CTL C.B.A. (E3)
TP	TP41003 (H-SW) (G-1): AUDIO (2) C.B.A. TP61004 (CTL) (D-1): INTERFACE C.B.A.
ADJ.	VR2003 (H-6)
TAPE	VFM8180HADH PORTION: 2
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	T=0.4msec±0.1msec

≪SET UP≫
SYNC: NOR (MENU NO. 1001-00)
FRAME SERVO: OFF (MENU NO. 6005-00)
TRACKING VR: CENTER (FIX)

1. Playback the adjustment tape the portion 2.
2. Connect the oscilloscope to TP61004 for CH-1 and TP41003 for CH-2.
3. Adjust VR2003 so that the "T" becomes 0.4msec±0.1 msec as shown in Figure E2.

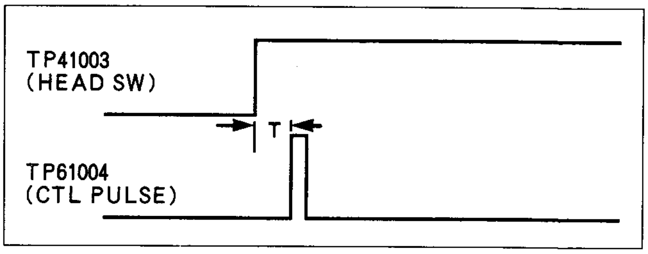


Figure E2

4-4. VIDEO REC SECTION

4-4-1. PEAK ADJ.

BOARD	VIDEO I/O C.B.A. (E5)
TP	TP3007 (B-3)
ADJ.	VR3007 (B-1), VR3008 (A-1), VR3002 (A-3)
TAPE	
INPUT	VIDEO SWEEP (B/W) SIGNAL (TP3003)
MODE	EJECT
M. EQ	OSCILLOSCOPE
SPEC.	MAXIMUM=6.7MHz±0.2MHz

≪NOTE≫
After this adjustment is finished, adjust "4-4-9. S-VHS Deviation Adj." and "4-5-8. S-VHS PB Frequency Response Adj.".

≪SET UP≫
S-VHS REC: ON (MENU NO. 2006)

1. Turn VR3007 and VR3008 fully counterclockwise.
2. Connect a jumper wire between TP3002 and GND.
3. Connect a jumper wire between TP3006 and GND.
4. Supply a video sweep signal as shown in Figure E3-A to TP3003.
5. Connect a scope to TP3007.
6. Adjust VR3002 so that the level at 6.7MHz becomes maximum as shown in Figure E3-B.

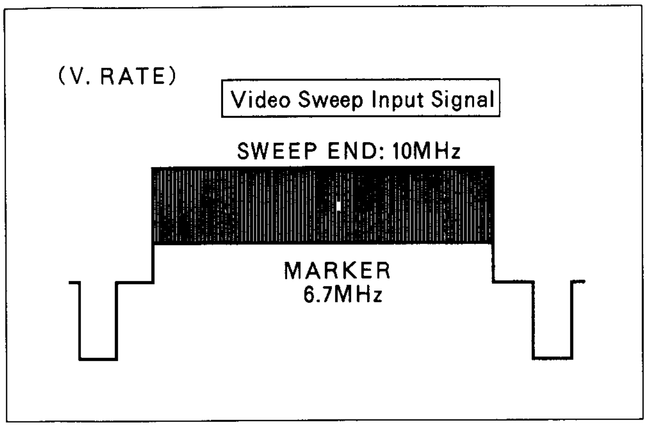


Figure E3-A

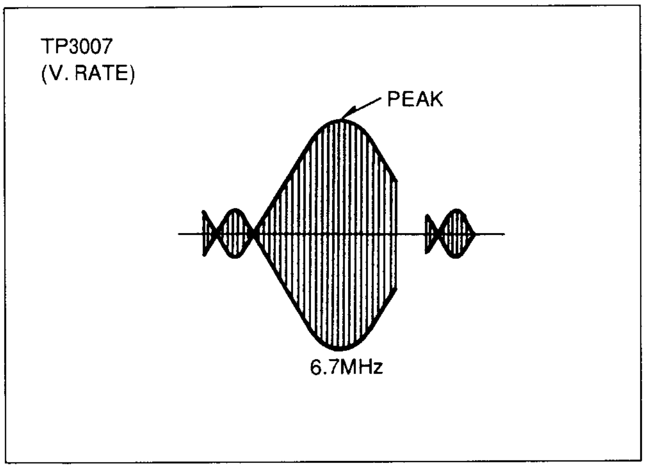


Figure E3-B

4-4-2. SUPPER LIMITER ADJ.

BOARD	VIDEO I/O C.B.A. (E5)
TP	TP3004 (C-3)
ADJ.	VR3001 (A-3)
TAPE	
INPUT	6.7MHz CW SIGNAL (TP3003)
MODE	EJECT
M. EQ	OSCILLOSCOPE
SPEC.	440mV±20mV

≪NOTE≫

This adjustment should be performed only after completion of "4-4-1. Peak Adj.".

After this adjustment is finished, adjust "4-4-9. S-VHS Deviation Adj." and "4-5-8. S-VHS PB Frequency Response Adj.".

≪SET UP≫

S-VHS REC: ON (MENU NO. 2006)

1. Turn VR3007 and VR3008 fully counterclockwise.
2. Connect a jumper wire between TP3002 and GND
3. Connect a jumper wire between TP3006 and GND.
4. Supply a 6.7MHz CW signal to TP3003.
5. Connect a scope to TP3007.
6. Adjust the output level of 6.7MHz CW signal so that the level at TP3007 becomes 90mV as shown in Figure E4-A.
7. Connect a scope to TP3004.
8. Adjust VR3001 so that the level becomes 440mV±20mV as shown in Figure E4-B.

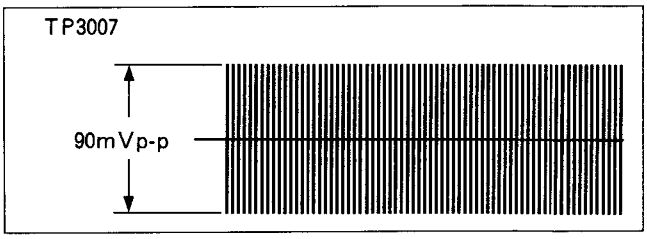


Figure E4-A

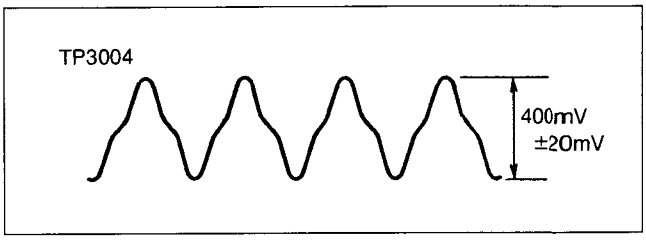


Figure E4-B

4-4-3. FSC ADJ.

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3203 (E-3)
ADJ.	VC3201 (G-1)
TAPE	
INPUT	NO SIGNAL
MODE	EJECT
M. EQ	FREQUENCY COUNTER
SPEC.	F=4.433619MHz±100Hz

1. Connect a jumper wire between TP3205 and GND.
2. Connect the frequency counter to TP3203.
3. Adjust VC3201 so that reading of frequency counter is f=4.433619MHz±100Hz.
4. After this adjustment remove the jumper wire from TP3205 and GND.

4-4-4. VCO ADJ.

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3201 (F-1)
ADJ.	VR3203 (E-1)
TAPE	
INPUT	NO SIGNAL
MODE	EJECT
M. EQ	FREQUENCY COUNTER
SPEC.	F=626.95KHz±5KHz

1. Connect a jumper wire between TP3202, TP3205 and GND.
2. Connect the frequency counter to TP3201.
3. Adjust VR3203 so that reading of frequency counter is f=626.95KHz±5KHz.
4. After this adjustment remove the jumper wire from TP3202, TP3205 and GND.

4-4-5. PILOT BURST ADJ. (AG-7700 only)

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3206 (G-1)
ADJ.	VC3202 (G-2), VR3201 (F-1)
TAPE	
INPUT	20% FLAT FILDE (LINE)
MODE	EJECT (E-E)
M. EQ	VECTOR SCOPE
SPEC.	PHASE: 270±5 DEGREES

≪SET UP≫
S-VHS REC: ON (MENU NO. 2006-01)

1. Supply a 20% flat filde signal to the VIDEO INPUT on the VTR.
2. Connect a jumper wire between TP3207 and GND.
3. Connect the vectorscope to VIDEO OUT.
4. Adjust VC3202 so that the phase of the pilot burst becomes 270 degree±5 degree as shown in Figure E5.
5. Adjust VR3201 so that the level of the pilot burst becomes 10% higher than the colour burst signal as shown in Figure E5.
6. After this adjustment remove the jumper wire from TP3207 and GND.

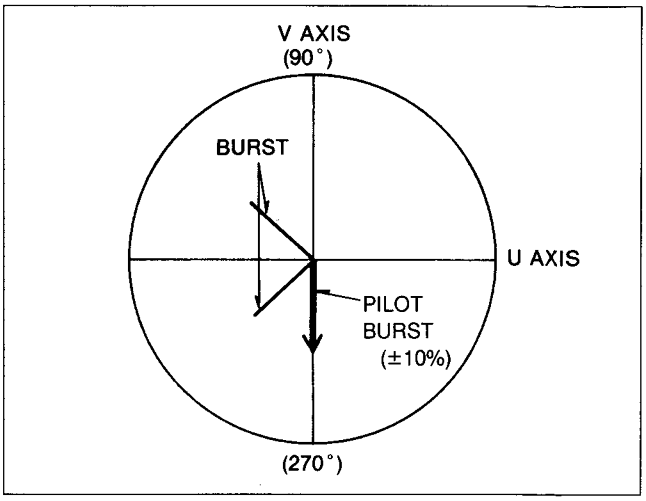


Figure E5

4-4-6. COMPOSITE LEVEL ADJ. (AG-7700 only)

BOARD	YC REC C.B.A. (E13)
TP	TP9601 (A-1)
ADJ.	VR9001 (A-1)
TAPE	
INPUT	COLOUR BAR SIGNAL (LINE)
MODE	EJECT (E-E)
M. EQ	OSCILLOSCOPE
SPEC.	1.5Vp-p±0.05Vp-p

≪SET UP≫
VIDEO MODE: AUTO (MENU NO. 2002-01)
INPUT SELECT SW: LINE
VIDEO LEVEL CONTROL: PUSH (AGC: ON)
VIDEO LEVEL VR: CENTER

1. Connect a scope to TP9601 and Adjust VR9001 so that level becomes 1.5Vp-p±0.05Vp-p as shown in Figure E6.

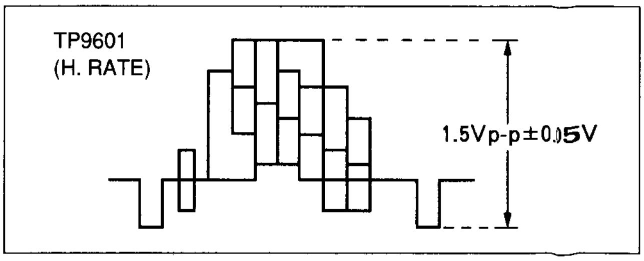


Figure E6

4-4-7. E-E Y LEVEL ADJ. (AG-7700 only)

BOARD	YC REC C.B.A. (E13)
TP	VIDEO OUTPUT (LINE)
ADJ.	VR9106 (B-1)
TAPE	
INPUT	COLOUR BAR SIGNAL (LINE)
MODE	EJECT (E-E)
M. EQ	W.F.M.
SPEC.	1.0Vp-p±0.02Vp-p

≪SET UP≫
INPUT SELECT SW: LINE
VIDEO LEVEL CONTROL: PUSH (AGC: ON)

1. Connect a W.F.M. to VIDEO OUTPUT (LINE).
2. Adjust VR9106 so that the level becomes 1.0Vp-p±0.02 Vp-p as shown in Figure E7.

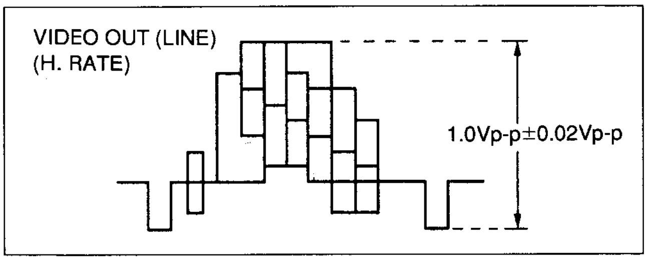


Figure E7

4-4-8. REC SUB EMPHASIS INPUT ADJ. (AG-7700 only)

BOARD	YC REC C.B.A. (E13)
TP	TP3001 (B-1)
ADJ.	VR9232 (F-1)
TAPE	
INPUT	COLOUR BAR SIGNAL (LINE)
MODE	E-E (EJECT)
M. EQ	OSCILLOSCOPE
SPEC.	400mV±8mV

≪NOTE≫
This adjustment should be performed only after completion of 4-4-7 E-E Y Level Adj.

≪SET UP≫
INPUT SELECT SW: LINE
VIDEO LEVEL CONTROL: PUSH (AGC: ON)

1. Connect a scope to TP3001 and Adjust VR9232 so that the level becomes 400mV±8mV as shown in Figure E8.

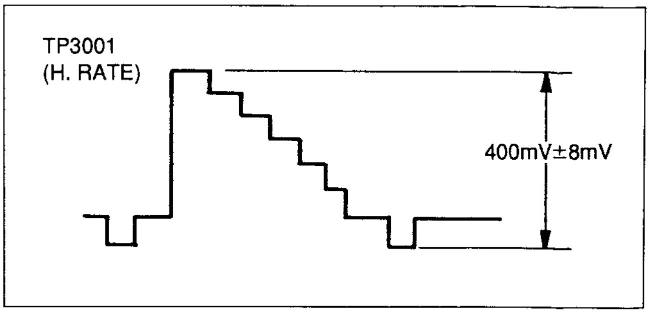


Figure E8

4-4-9. S-VHS DEVIATION ADJ. (AG-7700 only)

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3005 (f φ) (C-3), VR3001 (DEV.) (A-1)
ADJ.	VR3001 (f φ) (A-1), VR3007 (DEV.) (B-1)
TAPE	
INPUT	100% COLOUR BAR SIGNAL (LINE)
MODE	EJECT (E-E)
M. EQ	FREQUENCY COUNTER, OSCILLOSCOPE
SPEC.	f=5.4MHz±0.05MHz LEVEL=300mV±10mV

≪NOTE≫
After this adjustment is finished, adjust "4-4-11. S-VHS White & Dark Clip Adj.".

≪SET UP≫
S-VHS REC: ON (MENU NO. 2006)
VIDEO LEVEL CONTROL: PUSH (AGC: ON)
INPUT: LINE

1. Supply a 100% colour bar signal to LINE IN.
2. Connect a scope to TP3003.
3. Adjust VR9301 (DC) and VR9302 (WC) on the Y/C REC C.B.A. so that the overshoot becomes minimum as shown in Figure E9-A.

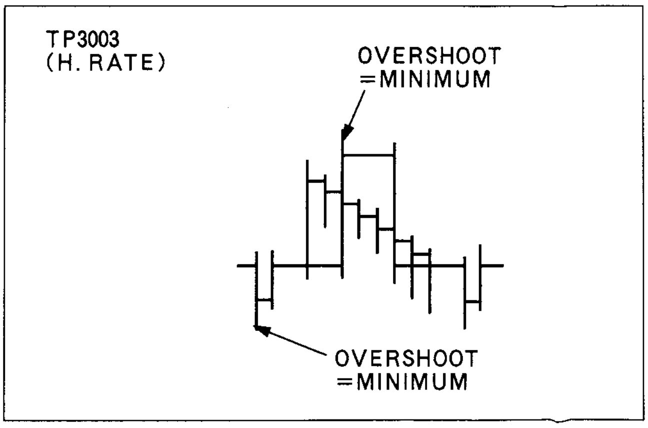


Figure E9-A

4. Disconnect the colour bar signal from LINE IN.
5. Connect a frequency counter to TP3005.
6. Adjust VR3001 so that the frequency becomes 5.4MHz± 0.05MHz.
7. Supply a 100% colour bar signal to LINE IN.
8. Connect a scope to VR3001 as shown in Figure E9-B.
9. Adjust VR3007 so that the level becomes 300mV±10mV as shown in Figure E9-C.

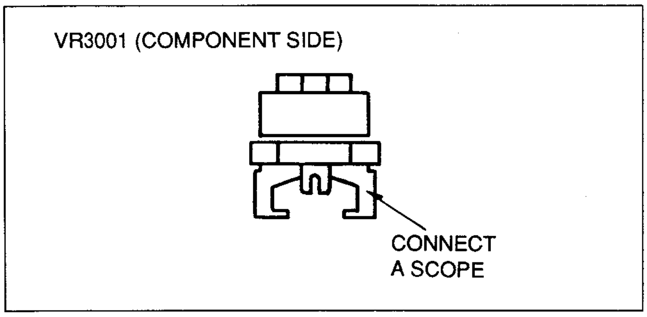


Figure E9-B

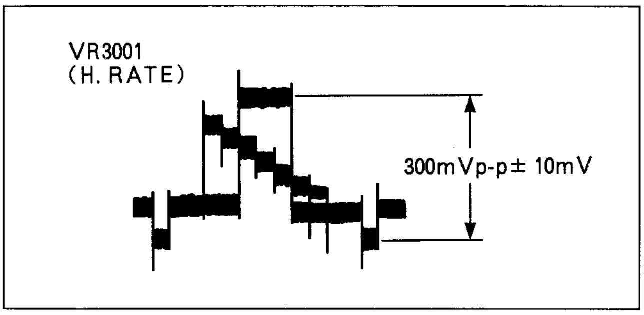


Figure E9-C

4-4-10. VHS DEVIATION ADJ. (AG-7700 only)

BOARD	YC REC C.B.A. (E13), VIDEO YC C.B.A. (E6)
TP	TP3005 (C-3), TP3001 (B-1)
ADJ.	VR3002 (fϕ) (B-2): VIDEO YC C.B.A. VR9202 (DEV.) (F-1): YC REC C.B.A.
TAPE	
INPUT	100% COLOUR BAR SIGNAL (LINE)
MODE	EJECT (E-E)
M. EQ	FREQUENCY COUNTER, OSCILLOSCOPE
SPEC.	f=3.8MHz±0.05MHz LEVEL=400mV±10mV

≪SET UP≫

S-VHS REC: OFF
VIDEO LEVEL CONTROL: PUSH (AGC: ON)
INPUT: LINE

1. Disconnect a 100% colour bar signal from LINE IN.
2. Connect a frequency counter to TP3005.
3. Adjust VR3002 so that the frequency becomes 3.8MHz± 0.05MHz.
4. Supply a 100% colour bar signal to LINE IN.
5. Connect a scope to TP3001.
6. Adjust VR9202 on the YC REC C.B.A. so that the level becomes 400mVp-p±10mVp-p as shown in Figure E10.

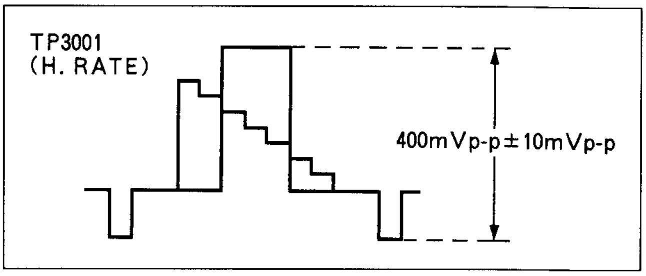


Figure E10

4-4-11. S-VHS WHITE & DARK CLIP ADJ. (AG-7700 only)

BOARD	YC REC C.B.A. (E13)
TP	TP3003 (A-1)
ADJ.	VR9302 (WHITE) (A-1), VR9301 (DARK) (A-1)
TAPE	
INPUT	SIN^2 PULSE & BAR (LINE)
MODE	EJECT (E-E)
M. EQ	OSCILLOSCOPE
SPEC.	WHITE CLIP: 215%±5% DARK CLIP: 70%±5%

≪NOTE≫

This adjustment should be performed only after completion of 4-4-9 S-VHS Deviation Adj.

≪SET UP≫

S-VHS REC: ON (MENU NO. 2006-01)
INPUT SELECT SW: LINE
VIDEO LEVEL CONTROL: PUSH (AGC: ON)

1. Connect a scope to TP3003.
2. Adjust VR9302 so that the white clip level becomes 215%±5% and Adjust VR9301 so that the Dark 70%± 5% as shown in Figure E11.

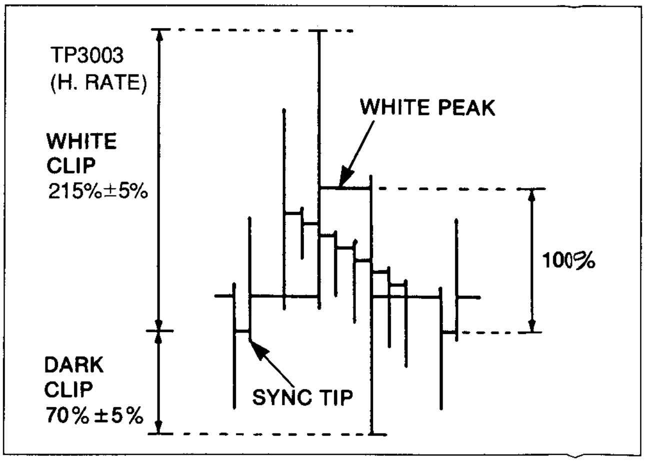


Figure E11

4-4-12. VIDEO METER ADJ. (AG-7700 only)

BOARD	YC REC C.B.A. (E13)
TP	VIDEO LEVEL METER
ADJ.	VR9201 (E-1)
TAPE	
INPUT	COLOUR BAR SIGNAL (LINE)
MODE	EJECT (E-E)
M. EQ	
SPEC.	REFER TO FIG (E12)

≪SET UP≫
PB/EE SELECT SW: EE (MENU NO. 2004-01)
VIDEO LEVEL CONTROL: PUSH (AGC: ON)
INPUT SELECT SW: LINE
CH-2 METER: VIDEO∗ TRACKING

1. Adjust VR9201 so that the needle of VIDEO LEVEL METER becomes at point as shown in Figure E12.

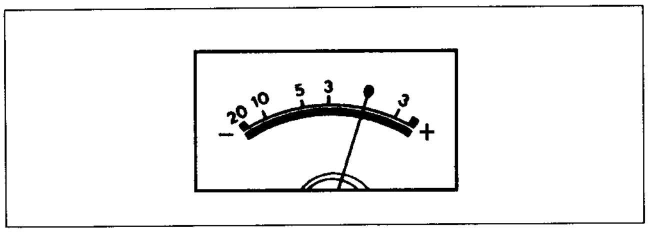


Figure E12

4-4-13. CHROMA REC CURRENT ADJ. (AG-7700 only)

BOARD	HEAD AMP C.B.A. (E15)
TP	TP5003 (HOT) (B-4), TP5002 (GND) (B-4)
ADJ.	VR5002
TAPE	S-VHS BLANK TAPE
INPUT	COLOUR BAR SIGNAL (LINE)
MODE	REC
M. EQ	OSCILLOSCOPE
SPEC.	40mV±2mV

≪SET UP≫
S-VHS REC: ON (MENU NO. 2006-01)
INPUT SELECT SW: LINE
VIDEO LEVEL CONTROL: PUSH (AGC: ON)

1. Turn VR5002 fully clockwise to eliminate Y carrier.
2. Connect the oscilloscope to TP5003 with on 1:1 probe.
3. Adjust VR5002 so that the cyan level becomes 40mV± 2mV as shown in Figure E13.

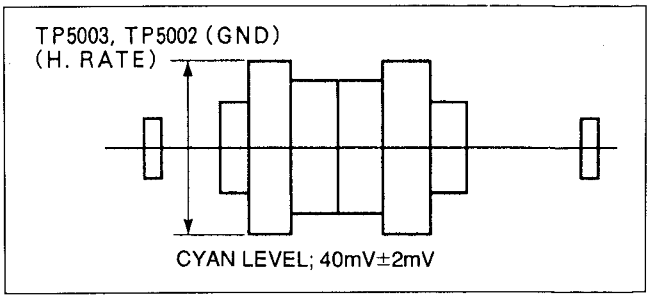


Figure E13

4-4-14. S-VHS Y REC CURRENT ADJ. (AG-7700 only)

BOARD	HEAD AMP C.B.A. (E15)
TP	TP5003 (HOT) (B-4), TP5002 (GND) (B-4)
ADJ.	VR5001
TAPE	S-VHS BLANK TAPE
INPUT	COLOUR BAR SIGNAL (LINE)
MODE	REC
M. EQ	OSCILLOSCOPE
SPEC.	150mV±5mV

≪NOTE≫
The adjustment should be performed only after completion of 4-4-13 Chroma REC Current Adj.

≪SET UP≫
S-VHS REC: ON (MENU NO. 2006-01)
VIDEO LEVEL CONTROL: PUSH (AGC: ON)
INPUT SELECT SW: LINE

1. Connect a oscilloscope to TP5003 with on 1:1 probe.
2. Adjust VR5001 so that the sync tip level becomes 150mV±5mV as shown in Figure E14.

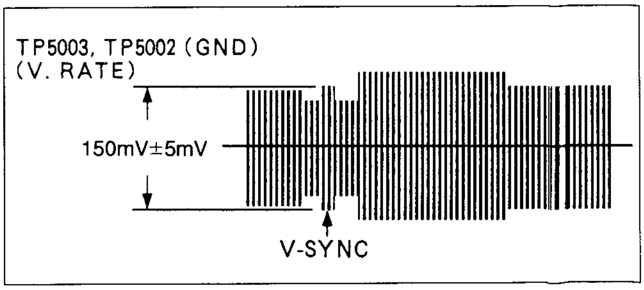


Figure E14

4-4-15. VHS Y REC CURRENT ADJ. (AG-7700 only)

BOARD	VIDEO I/O C.B.A. (E5)
TP	TP5003 (HOT) (B-4) TP5002 (GND) (B-4): HEAD AMP C.B.A.
ADJ.	VR3301
TAPE	VHS BLANK TAPE
INPUT	COLOUR BAR
MODE	REC
M. EQ	OSCILLOSCOPE
SPEC.	160mV±5mV

≪NOTE≫

This adjustment should be performed only after completion of 4-4-13 Chroma REC Current Adj and 4-4-14 S-VHS Y REC Current Adj.

≪SET UP≫

S-VHS REC: OFF
AGC: ON (Push)
VIDEO INPUT: LINE

1. Connect the scope to TP5003 (HOT) and TP5002 (GND) on the Head Amp C.B.A.
2. Adjust VR3301 so that the sync tip level (A) becomes 160mV±5mV as shown in Figure E15.

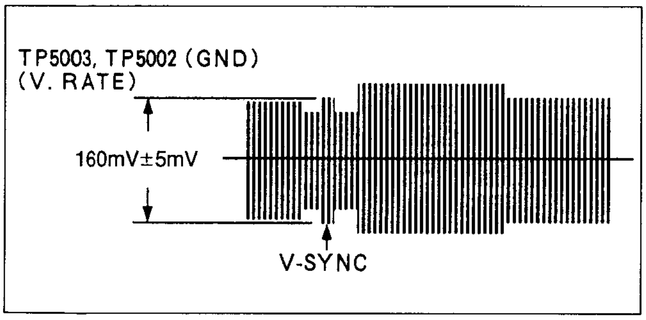


Figure E15

4-5. VIDEO PB SECTION

4-5-1. PB SUB EMPHASIS INPUT LEVEL ADJ.

A. FOR AG-7700

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3001 (B-1)
ADJ.	VR3004 (A-1)
TAPE	C.B SELF RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	400mV±8mV

≪SET UP≫

S-VHS REC: ON (MENU NO. 2006-01)

1. Connect the oscilloscope to TP3001.
2. Playback the colour for signal self recorded tape by S-VHS mode.
3. Adjust VR3004 so that the level becomes 400mV±8mV as shown in Figure E16.

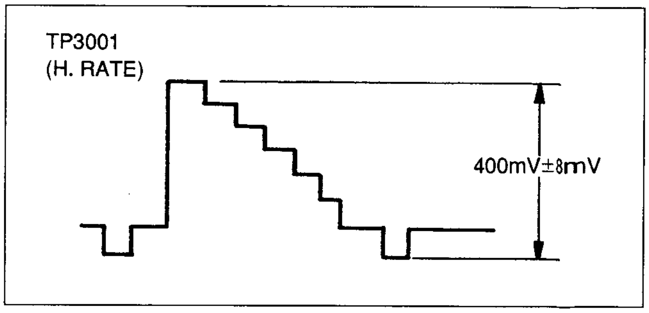


Figure E16

B. FOR AG-7600

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3001 (B-1)
ADJ.	VR3004 (A-1)
TAPE	COLOUR BAR RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	400mV±8mV

1. Connect the oscilloscope to TP3001.
2. Playback the colour bar signal other recorded tape by S-VHS mode.
3. Adjust VR3004 so that the level becomes 400mV±8mV as shown in Figure E16.

4-5-2. S-VHS PB Y LEVEL ADJ.

A. *FOR AG-7700*

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3004 (B-1)
ADJ.	VR3006 (C-1)
TAPE	C.B SELF RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	1.5Vp-p±0.03Vp-p

≪SET UP≫
S-VHS REC: ON (MENU NO. 2006-01)
VIDEO LEVEL CONTROL: PUSH (AGC: ON)

1. Connect the oscilloscope to TP3004.
2. Playback the colour bar signal self recorded tape by S-VHS mode.
3. Adjust VR3006 so that level becomes 1.5Vp-p±0.03 Vp-p as shown in Figure E17.

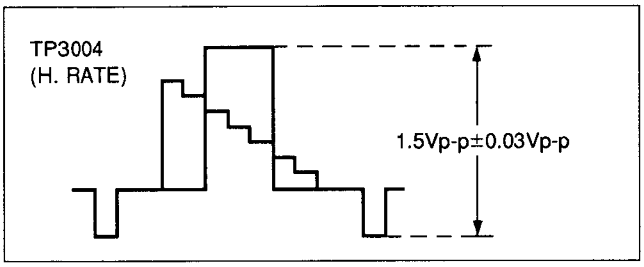


Figure E17

B. *FOR AG-7600*

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3004 (B-1)
ADJ.	VR3006 (C-1)
TAPE	COLOUR BAR SIGNAL RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	1.5Vp-p±0.03Vp-p

≪SET UP≫
VIDEO LEVEL CONTROL: PUSH (AGC: ON)

1. Connect the oscilloscope to TP3004.
2. Playback the colour bar signal other recorded tape by S-VHS mode.
3. Adjust VR3006 so that level becomes 1.5Vp-p±0.03 Vp-p as shown in Figure E17.

4-5-3. VHS PB Y LEVEL ADJ.

A. *FOR AG-7700*

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3004 (B-1)
ADJ.	VR3005 (A-1)
TAPE	C.B SELF RECORDED TAPE (VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	1.5Vp-p±0.03Vp-p

≪SET UP≫
VIDEO LEVEL CONTROL: PUSH (AGC: ON)

1. Connect the oscilloscope to TP3004.
2. Playback the colour bar signal self recorded tape by VHS mode.
3. Adjust VR3005 so that the level becomes 1.5Vp-p± 0.03Vp-p as shown in Figure E18.

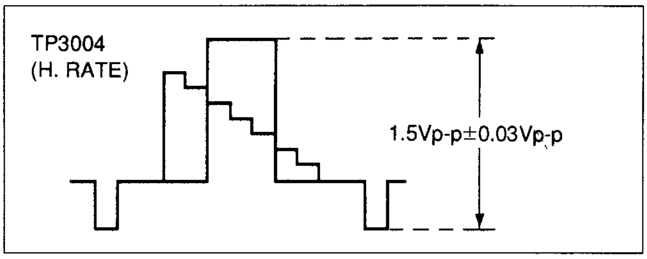


Figure E18

B. *FOR AG-7600*

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3004 (B-1)
ADJ.	VR3005 (C-1)
TAPE	COLOUR BAR SIGNAL RECORDED TAPE (VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	1.5Vp-p±0.03Vp-p

≪SET UP≫
VIDEO LEVEL CONTROL: PUSH (AGC: ON)

1. Connect the oscilloscope to TP3004.
2. Playback the colour bar signal other recorded tape by VHS mode.
3. Adjust VR3005 so that level becomes 1.5Vp-p±0.03 Vp-p as shown in Figure E18.

4-5-4. NORMAL Y LEVEL

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO OUT
ADJ.	VR3202 (E-1)
TAPE	C.B SIGNAL RECORDED TAPE
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	LEVEL A=±1%

≪SET UP≫
IMAGE MODE SELECT: NORM (MENU NO. 2001-01)

1. Connect the oscilloscope to VIDEO OUT.
2. Playback the colour bar signal recorded tape.
3. Measure the video out level "A".
4. Change the IMAG MODE SELECT SW from EDIT mode to NORM mode.
5. Adjust VR3202 so that the video out level of the NORM mode is within ±1% to "A".

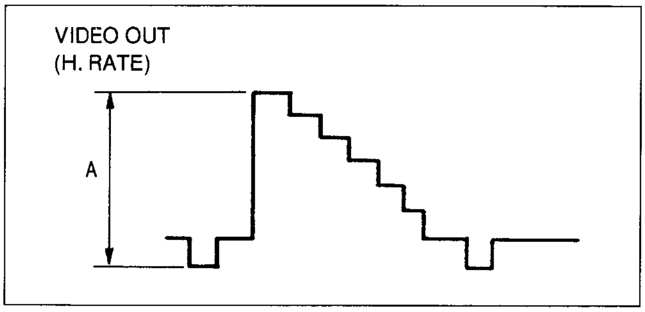


Figure E19

4-5-5. DROP OUT ADJ.

A. FOR AG-7700

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3002 (C-1)
ADJ.	VR3003 (C-3)
TAPE	C.B SELF RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	MINIMUM

≪SET UP≫
S-VHS REC: ON (MENU NO. 2006-01)
VIDEO LEVEL CONTROL: PUSH (AGC: ON)

1. Connect the oscilloscope to TP3002.
2. Playback the colour bar signal self recorded tape by S-VHS mode.
3. Adjust VR3003 so that the level becomes minimum as shown in Figure E20.

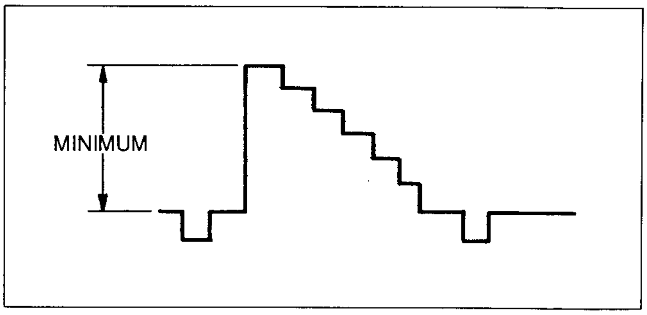


Figure E20

B. FOR AG-7600

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3002 (C-1)
ADJ.	VR3003 (C-3)
TAPE	COLOUR BAR SIGNAL RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	MINIMUM

≪SET UP≫
VIDEO LEVEL CONTROL: PUSH (AGC: ON)

1. Connect the oscilloscope to TP3002.
2. Playback the colour bar signal other recorded tape by S-VHS mode.
3. Adjust VR3003 so that level becomes minimum as shown in Figure E20.

4-5-6. VIDEO TRACKING METER ADJ.

A. FOR AG-7700

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO TRACKING METER
ADJ.	VR3003 (B-1)
TAPE	C.B SELF RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	
SPEC.	REFER TO FIG E21

≪SET UP≫
S-VHS REC: ON (MENU NO. 2006-01)
CH-2 METER SW: VIDEO ∗ TRACKING

1. Playback the colour bar signal self recorded tape by S-VHS mode.
2. Adjust VR3003 so that the needle of VIDEO TRACKING METER becomes at point as shown in Figure E21.

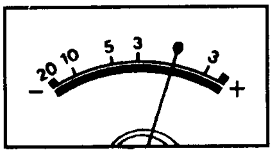


Figure E21

B. FOR AG-7600

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO TRACKING METER
ADJ.	VR3003 (B-1)
TAPE	COLOUR BAR SIGNAL RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	
SPEC.	REFER TO FIG E21

≪SET UP≫
CH2 METER SW: VIDEO ✻ TRACKING

1. Playback the colour bar signal other recorded tape by S-VHS mode.
2. Adjust VR3003 so that the needle of VIDEO TRACKING METER becomes at point as shown in Figure E21.

4-5-7. PB OUTPUT Y LEVEL

A. FOR AG-7700

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO OUT (75Ω)
ADJ.	VR3201 (E-1)
TAPE	C.B SELF RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	W.F.M
SPEC.	1.0Vp-p±0.02Vp-p

≪NOTE≫
VIDEO OUT should be 75Ω terminated.

≪SET UP≫
IMAGE MODE SELECT: NOR (MENU NO. 2001-00)
S-VHS REC: ON (MENU NO. 2006-01)
VIDEO CONTROL LEVEL: PUSH (AGC: ON)

1. Connect the waveform monitor to VIDEO OUT.
2. Playback the colour bar signal self recorded tape by S-VHS mode.
3. Adjust VR3201 so that the Y level becomes 1.0Vp-p± 0.02Vp-p as shown in Figure E22.

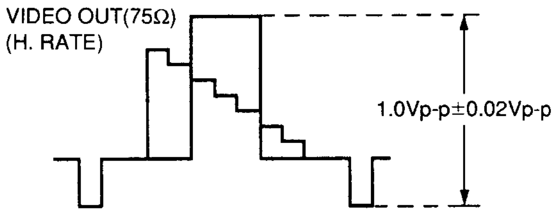


Figure E22

B. FOR AG-7600

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO OUT (75Ω)
ADJ.	VR3201 (E-1)
TAPE	COLOUR BAR SIGNAL RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	W.F.M
SPEC.	1.0Vp-p±0.02Vp-p

≪NOTE≫
VIDEO OUT should be 75Ω terminated.

≪SET UP≫
IMAGE MODE SELECT: NOR (MENU NO. 2001-00)
VIDEO CONTROL LEVEL SW: PUSH (AGC: ON)

1. Connect the waveform monitor to VIDEO OUT.
2. Playback the colour bar signal other recorded tape by S-VHS.
3. Adjust VR3201 so that the Y level becomes 1.0Vp-p± 0.02Vp-p as shown in Figure E22.

4-5-8. S-VHS PB FREQUENCY RESPONSE ADJ.

A. FOR AG-7700

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO OUT
ADJ.	VR3007 (B-1), VR3008 (A-1)
TAPE	30% VIDEO SWEEP (B/W) SIGNAL SELF RECORDED TAPE
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	100KHz:4MHz=5:3±0.5

≪SET UP≫
IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)
S-VHS REC: ON (MENU NO. 2006-01)

1. Playback the 30% sweep signal (Fig. E23-A) self recorded tape by S-VHS mode.
   (Vary the vertical scope setting until the 100KHz level reaches 5 divisions)
2. Connect the oscilloscope to VIDEO OUT.
3. Adjust VR3007 (L CH) and VR3008 (R CH) so that the level becomes as shown in Figure E23-B.

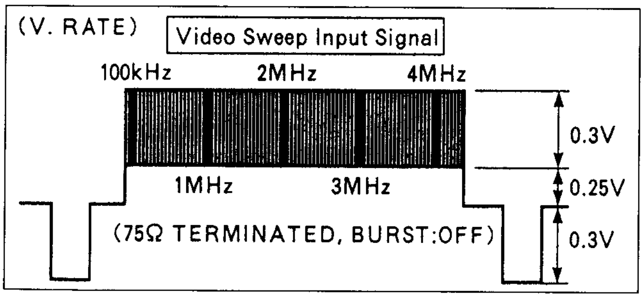


Figure E23-A

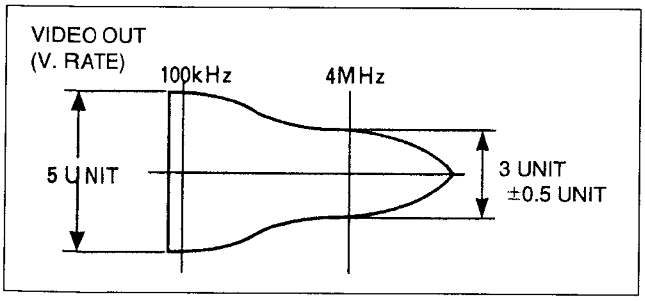


Figure E23-B

B. FOR AG-7600

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO OUT
ADJ.	VR3007 (B-1), VR3008 (A-1)
TAPE	30% VIDEO SWEEP (B/W) SIGNAL OTHER RECORDED TAPE
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	100KHz:4MHz=5:3±0.5

≪SET UP≫
IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)

1. Playback the 30% sweep signal (Fig. E23-A) other recorded tape by S-VHS mode.
   (Vary the vertical scope setting until the 100KHz level reaches 5 divisions)
2. Connect the oscilloscope to VIDEO OUT.
3. Adjust VR3007 (L CH) and VR3008 (R CH) so that the level becomes as shown in Figure E23-B.

4-5-9. S-VHS SS FREQUENCY RESPONSE ADJ.

≪NOTE≫
This adjustment should be performed only after completion of 4-5-8 S-VHS PB Frequency Response Adj.

A. FOR AG-7700

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO OUT
ADJ.	VR3005 (L CH), VR3006 (R CH)
TAPE	30% VIDEO SWEEP (B/W) SIGNAL SELF RECORDED TAPE (S-VHS)
INPUT	
MODE	JOG
M. EQ	OSCILLOSCOPE
SPEC.	FIG E24

≪SET UP≫
IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)
S-VHS REC: ON (MENU NO. 2006-01)

1. Playback the 30% sweep signal (Fig. E23-A) self recorded tape by S-VHS mode.
2. Connect the oscilloscope to VIDEO OUT.
3. Place the deck in JOG mode. (Vary the vertical scope seeting until the 100KHz level reaches 5 divisions)
4. Adjust VR3005 and VR3006 so that the L', R' level becomes as shown in Figure E24.

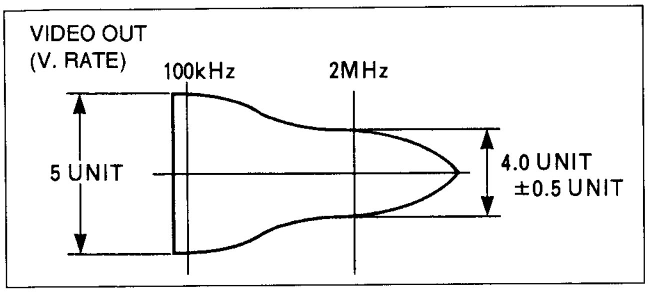


Figure E24

B. FOR AG-7600

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO OUT
ADJ.	VR3005 (L CH), VR3006 (R CH)
TAPE	30% VIDEO SWEEP (B/W) SIGNAL OTHER RECORDED TAPE (S-VHS)
INPUT	
MODE	JOG
M. EQ	OSCILLOSCOPE
SPEC.	FIG E24

≪SET UP≫
IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)

1. Playback the 30% sweep signal (Fig. E23-A) other recorded tape by S-VHS mode.
2. Connect the oscilloscope to VIDEO OUT.
3. Place the deck in JOG mode. (Vary the vertical scope setting until the 100KHz level reaches 5 divisions)
4. Adjust VR3005 and VR3006 so that the L', R' level becomes as shown in Figure E24.

4-5-10. VHS PB FREQUENCY RESPONSE ADJ.

A. FOR AG-7700

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO OUT
ADJ.	VR3004 (B-1)
TAPE	30% VIDEO SWEEP (B/W) SIGNAL SELF RECORDED TAPE
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	100KHz:2MHz=5:4±0.5

≪NOTE≫
When you recorded the 30% video sweep signal, set the IMAGE MODE SELECT to EDIT.

≪SET UP≫
IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)
S-VHS REC: OFF (MENU NO. 2006-00)

1. Playback the 30% sweep signal (Figure E23-A) self recorded tape by VHS mode. (Vary the vertical scope setting until the 100kHz level reaches 5 divisions)
2. Connect the oscilloscope to VIDEO OUT.
3. Adjust VR3007 so that the level becomes as shown in Figure E25.

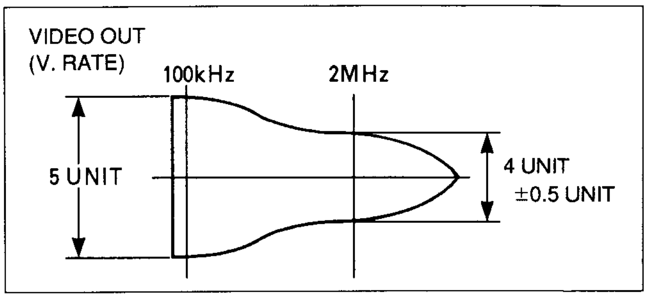


Figure E25

B. FOR AG-7600

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO OUT
ADJ.	VR3004 (B-1)
TAPE	30% VIDEO SWEEP (B/W) SIGNAL OTHER RECORDED TAPE
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	100KHz:2MHz=5:4±0.5

≪SET UP≫
IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)

1. Playback the 30% sweep signal (Fig. E23-A) other recorded tape by VHS mode. (Vary the vertical scope setting until the 100KHz level reaches 5 divisions)
2. Connect the oscilloscope to VIDEO OUT.
3. Adjust VR3004 so that the level becomes as showin in Figure E25.

4-5-11. CNR Y BALANCE ADJ.

A. FOR AG-7700

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3402
ADJ.	VR3401 (F-1)
TAPE	C.B SELF RECORDED TAPE
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	"A"=LESS THAN 50mVp-p

≪SET UP≫
IMAGE MODE SELECT: NOR (MENU NO. 2001-00)
S-VHS REC: ON (MENU NO. 2006-01)
INPUT SELECT SW: LINE

1. Connect the oscilloscope to TP3402.
2. Playback the colour bar signal self recorded tape by S-VHS mode.
3. Adjust VR3401 so that the level becomes minimum as possible (less than 50mVp-p) as shown in Figure E26.

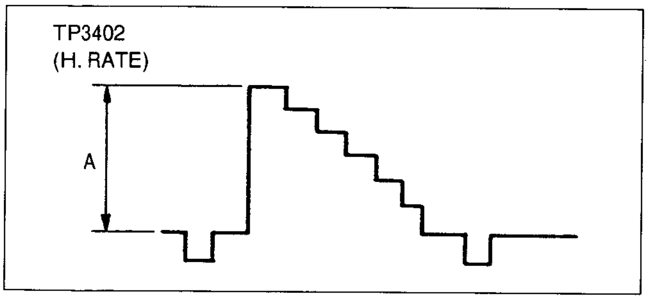


Figure E26

B. FOR AG-7600

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3402 (D-1)
ADJ.	VR3401 (F-1)
TAPE	COLOUR BAR SIGNAL RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	A=MINIMUM

≪SET UP≫
IMAGE MODE SELECT: NOR (MENU NO. 2001-00)

1. Connect the oscilloscope to TP3402.
2. Playback the colour bar signal self recorded tape by S-VHS mode.
3. Adjust VR3401 so that the level "A" becomes minimum as possible (less than 50mVp-p) as shown in Figure E26.

4-5-12. CNR ADJ.

A. FOR AG-7700

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3403 (D-1)
ADJ.	VR3402 (E-3), VR3403 (E-3)
TAPE	C.B SELF RECORDED TAPE
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	"A"=LESS THAN 700mVp-p

≪NOTE≫
This adjustment should be performed only after completion of 4-5-11 CNR Y Balance Adj.

≪SET UP≫
IMAGE MODE SELECT: NOR (MENU NO. 2001-00)
S-VHS REC: ON (MENU NO. 2006-01)

1. Connect the oscilloscope to TP3403.
2. Playback the colour bar signal self recorded tape by S-VHS mode.
3. Adjust VR3402 and VR3403 mutually so that chroma signal becomes minimum as possible (less than 700 mVp-p) as shown in Figure E27.

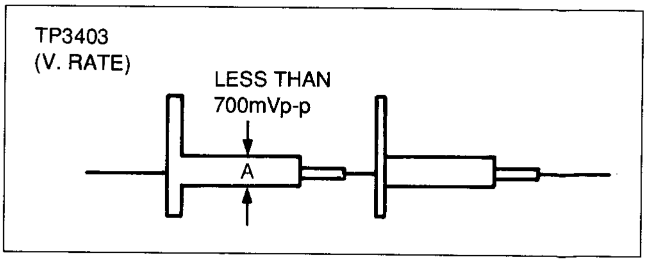


Figure E27

B. FOR AG-7600

BOARD	VIDEO YC C.B.A. (E6)
TP	TP3403 (D-3)
ADJ.	VR3402 (E-3), VR3403 (E-3)
TAPE	COLOUR BAR SIGNAL RECORDED TAPE
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	"A"=MINIMUM

≪NOTE≫
This adjustment showld be performed only after completion of 4-5-10 CNR Y Balance Adj.

≪SET UP≫
IMAGE MODE SELECT: NOR (MENU NO. 2001-00)
S-VHS REC: ON (MENU NO. 2006-01)

1. Connect the oscilloscope to TP3403.
2. Playback the colour bar signal other recorded tape by S-VHS mode.
3. Adjust VR3402 and VR3403 mutually so that chroma signal becomes minimum (less than 700mVp-p) as shown in Figure E27.

4-5-13. CAC WHITE BALANCE ADJ.

A. *FOR AG-7700*

BOARD	VIDEO YC C.B.A. (E6)
TP	VIDEO OUT (75Ω)
ADJ.	VR3406 (E-1), VR3410 (C-1)
TAPE	C.B SELF RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	VECTOR SCOPE
SPEC.	REFER TO FIG E28

≪NOTE≫
Input of the vectorscope should be 75Ω terminated.

≪SET UP≫
IMAGE MODE SELECT: NOR (MENU NO. 2001-00)
S-VHS REC: ON (MENU NO. 2006-01)

1. Playback the colour bar signal self recorded tape by S-VHS mode.
2. Connect the vectorscope to VIDEO OUT and adjust VR3406 and VR3410 so that the point “C” becomes center as shown in Figure E28.

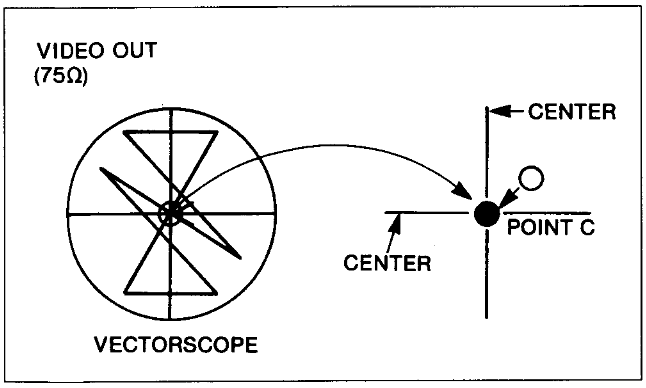


Figure E28

B. *FOR AG-7600*

BOARD	VIDEO YC C.B.A. (E6)
TP	VIDEO OUT (75Ω)
ADJ.	VR3406 (E-1), VR3410 (C-1)
TAPE	COLOUR BAR SIGNAL RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	VECTOR SCOPE
SPEC.	REFER TO FIG E28

≪NOTE≫
Input of the vectorscope showld be 75Ω terminated.

≪SET UP≫
IMAGE MODE SELECT: NOR (MENU NO. 2001-00)

1. Playback the colour bar signal other recorded tape by S-VHS mode.
2. Connect the vectorscope to VIDEO OUT and adjust VR3406 and VR3410 so that the point “C” becomes center as shown in Figure E28.

4-5-14. EE CHROMA LEVEL ADJ. (AG-7700 only)

BOARD	VIDEO YC C.B.A. (E6)
TP	VIDEO OUT (75Ω)
ADJ.	VR3405 (C-1)
TAPE	
INPUT	COLOUR BAR SIGNAL (LINE)
MODE	E-E
M. EQ	OSCILLOSCOPE
SPEC.	0.65Vp-p±0.03Vp-p

≪NOTE≫
VIDEO OUT should be 75Ω terminated.

≪SET UP≫
VIDEO CONTROL LEVEL: PUSH (AGC: ON)
VIDEO INPUT SW: LINE

1. Connect the oscilloscope to VIDEO OUT.
2. Adjust VR3405 so that the cyan level becomes 0.65 Vp-p±0.03Vp-p as shown in Figure E29.

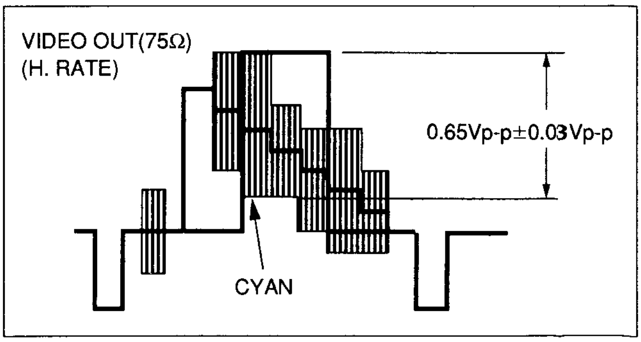


Figure E29

4-5-15. VV CHROMA LEVEL ADJ.

A. *FOR AG-7700*

BOARD	VIDEO YC C.B.A. (E6)
TP	VIDEO OUT (75Ω)
ADJ.	VR3404 (C-1)
TAPE	C.B SELF RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	0.62Vp-p±0.03Vp-p

≪NOTE≫
VIDEO OUT should be 75Ω terminated.

≪SET UP≫
IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)
S-VHS REC: ON (MENU NO. 2006-01)

1. Connect the oscilloscope to VIDEO OUT.
2. Playback the colour bar signal self recorded tape by S-VHS mode.
3. Adjust VR3404 so that the cyan level becomes 0.62 Vp-p±0.05Vp-p as shown in Figure E30-A.

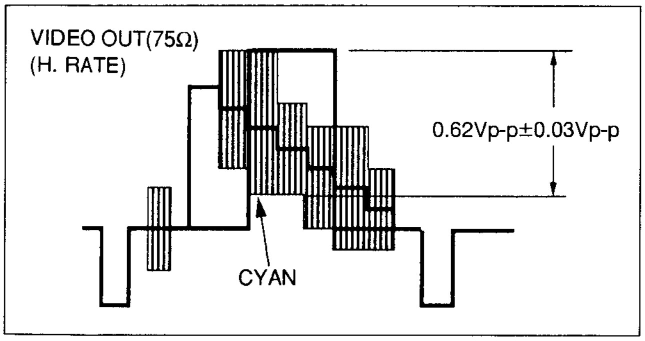


Figure E30-A

B. *FOR AG-7600*

BOARD	VIDEO YC C.B.A. (E6)
TP	VIDEO OUT (75Ω)
ADJ.	VR3404 (C-1)
TAPE	COLOUR BAR SIGNAL RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	0.62Vp-p±0.03Vp-p

≪NOTE≫
VIDEO OUT should be 75Ω terminated.

≪SET UP≫
IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)

1. Connect the oscilloscope to VIDEO OUT.
2. Playback the colour bar signal other recorded tape by S-VHS mode.
3. Adjust VR3404 so that the cyan level becomes 0.62 Vp-p±0.03Vp-p as shown in Figure E30-B.

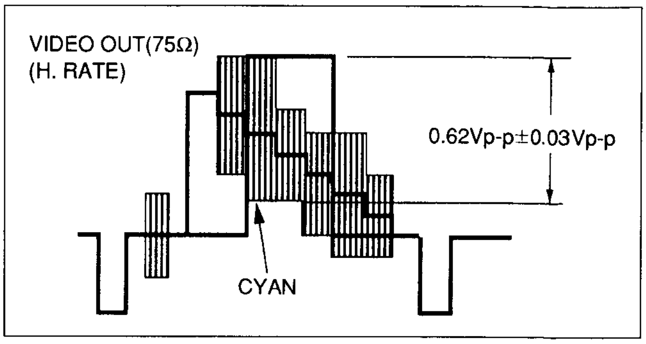


Figure E30-B

4-5-16. CAC LEVEL ADJ.

A. *FOR AG-7700*

BOARD	VIDEO YC C.B.A. (E6)
TP	VIDEO OUT (75Ω)
ADJ.	VR3407 (D-1)
TAPE	C.B SELF RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	0.65Vp-p±0.03Vp-p

≪NOTE≫
This adjustment should be performed only after completion of 4-5-15, VV Chroma Level Adj.
VIDEO OUT should be 75Ω terminated.

≪SET UP≫
IMAGE MODE SELECT: NOR (MENU NO. 2001-01)
S-VHS REC: ON (MENU NO. 2006-01)

1. Connect the oscilloscope to VIDEO OUT.
2. Playback the colour bar signal self recorded tape by S-VHS mode.
3. Adjust VR3407 so that the cyan level becomes 0.65 Vp-p±0.03Vp-p as shown in Figure E31.

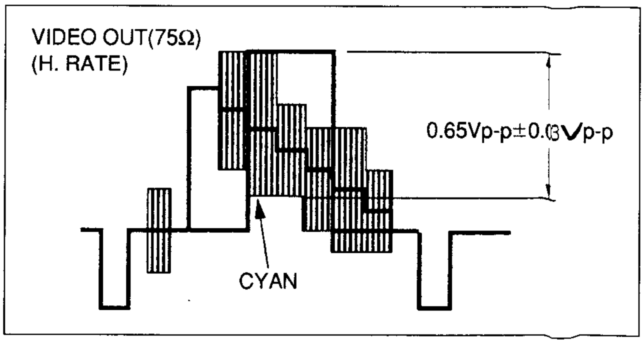


Figure E31

B. FOR AG-7600

BOARD	VIDEO YC C.B.A. (E6)
TP	VIDEO OUT (75Ω)
ADJ.	VR3407 (D-1)
TAPE	C.B SELF RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	0.65Vp-p±0.03Vp-p

≪NOTE≫
This adjustment should be performed only after completion of 4-5-14, VV Chroma Level Adj.
VIDEO OUT should be 75Ω terminate.

≪SET UP≫
IMAGE MODE SELECT: NOR (MENU NO. 2001-00)
S-VHS REC: ON (MENU NO. 2006-01)

1. Connect the oscilloscope to VIDEO OUT.
2. Playback the colour bar signal other recorded tape by S-VHS mode.
3. Adjust VR3407 so that the cyan level becomes 0.65 Vp-p±0.03Vp-p as shown in Figure E31.

4-5-17. VV BURST ERROR ADJ.

A. FOR AG-7700

BOARD	VIDEO YC C.B.A. (E6)
TP	VIDEO OUT (75Ω)
ADJ.	VR3202 (F-1)
TAPE	C.B SELF RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	VECTOR SCOPE
SPEC.	90±2 DEGREES

≪NOTE≫
VIDEO OUT should be 75Ω terminate.

≪SET UP≫
IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)
S-VHS REC: ON (MENU NO. 2006-01)

1. Connect the oscilloscope to VIDEO OUT.
2. Adjust VR3202 so that the angle of two burst becomes 90±2 degrees as shown in Figure E32.

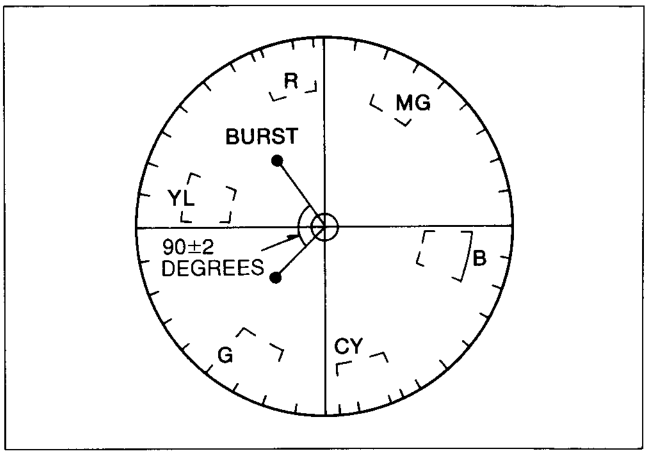


Figure E32

B. FOR AG-7600

BOARD	VIDEO YC C.B.A. (E6)
TP	VIDEO OUT (75Ω)
ADJ.	VR3202 (F-1)
TAPE	COLOUR BAR RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	VECTOR SCOPE
SPEC.	90±2 DEGREES

≪NOTE≫
VIDEO OUT should be 75Ω terminate.

≪SET UP≫
IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)

1. Connect the oscilloscope to VIDEO OUT.
2. Adjust VR3202 so that the angle of two burst becomes 90±2 degrees as shown in Figure E32.

4-5-18. BURST LEVEL ADJ.

A. FOR AG-7700

BOARD	VIDEO YC C.B.A. (E6)
TP	VIDEO OUT (75Ω)
ADJ.	VR3207 (E-1), VR3206 (E-1)
TAPE	C.B SELF RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	VECTOR SCOPE AND OSCILLOSCOPE
SPEC.	REFER TO FIG E33-A, E33-B

≪NOTE≫
VIDEO OUT should be 75Ω terminate.

≪SET UP≫
IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)
S-VHS REC: ON (MENU NO. 2006-01)

1. Playback the colour bar signal self recorded tape by S-VHS mode.
2. Connect the vectorscope to VIDEO OUT.
3. Adjust VR3206 so that the vector dot of magenta becomes in the innerbox as shown in Figure E33-A.
4. Connect the oscilloscope to VIDEO OUT.
5. Adjust VR3207 so that the burst level becomes 0.31Vp-p ±0.02Vp-p as shown in Figure E33-B.
6. After completion of the burst level (VR3207), comfirm that the vector dot of magenta is in the innerbox, if not repeat steps 3, 5.

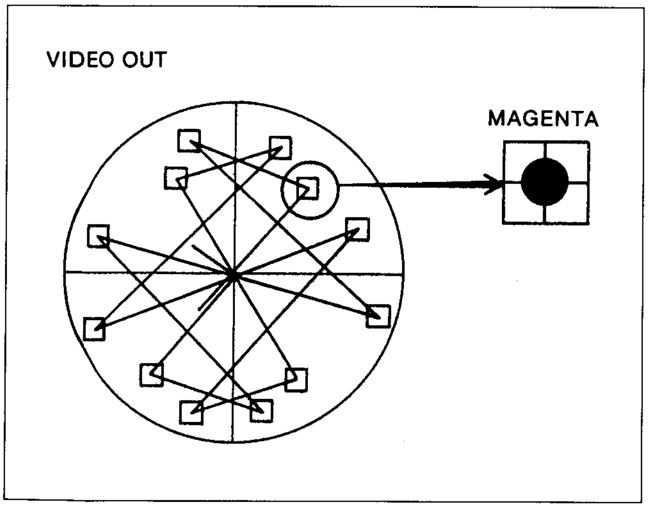


Figure E33-A

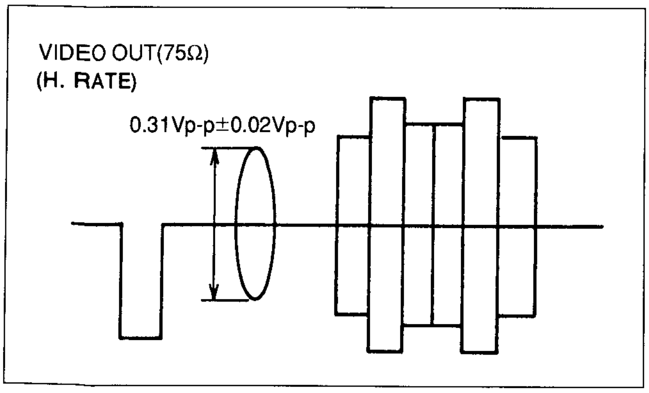


Figure E33-B

B. FOR AG-7600

BOARD	VIDEO YC C.B.A. (E6)
TP	VIDEO OUT (75Ω)
ADJ.	VR3207 (E-1), VR3206 (E-1)
TAPE	COLOUR BAR SIGNAL RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	VECTOR SCOPE AND OSCILLOSCOPE
SPEC.	REFER TO FIG E33-A, E33-B

≪NOTE≫
VIDEO OUT should be 75Ω terminate.

≪SET UP≫
IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)

1. Playback the colour bar signal other recorded tape by S-VHS mode.
2. Connect the vectorscope to VIDEO OUT.
3. Adjust VR3206 so that the vector dot of magenta becomes in the innerbox as shown in Figure E33-A.
4. Connect the oscilloscope to VIDEO OUT.
5. Adjust VR3207 so that the burst level becomes 0.31Vp-p ±0.02Vp-p as shown in Figure E33-B.
6. After completion of the burst level (VR3207), comfirm that the vector dot of magenta is in the innerbox, if not repeat steps 3, 5.

4-5-19. PB S-VHS EDIT Y/C DELAY ADJ.

A. FOR AG-7700

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO OUT (75Ω)
ADJ.	VR3102 (C-1), SW3402 (G-1)
TAPE	SIN^2 PULSE & BAR SIGNAL SELF RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	0nsec±30nsec (REFER TO FIG E35)

≪NOTE≫
VIDEO OUT should be 75Ω terminate.

≪SET UP≫
IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)
S-VHS REC: ON (MENU NO. 2006-01)

1. Connect the oscilloscope to VIDEO OUT and expanded the "A" portion as shown in Figure E34.
2. Playback the sin² pulse bar signal self recorded tape by S-VHS mode.
3. Adjust VR3402 and SW3102 so that the waveform becomes as shown in Figure E35.

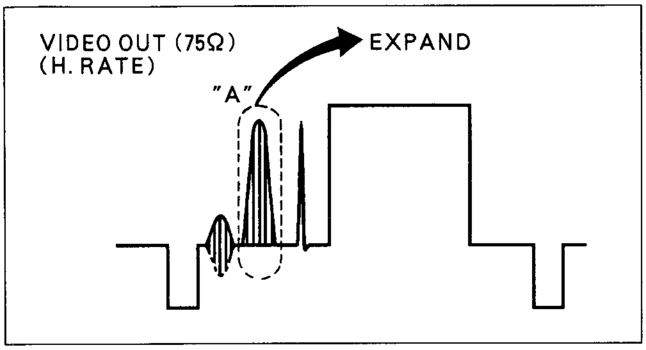


Figure E34

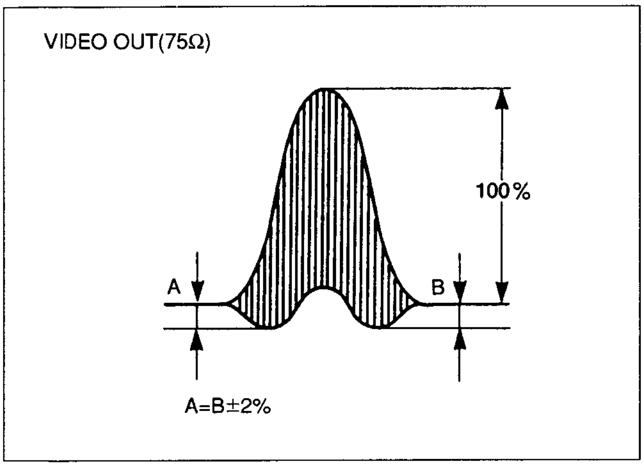


Figure E35

B. *FOR AG-7600*

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO OUT (75Ω)
ADJ.	VR3102 (C-1), SW3402 (G-1)
TAPE	SIN² PULSE & BAR SIGNAL OTHER RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	0nsec±30nsec (REFER TO FIG E35)

≪NOTE≫

VIDEO OUT should be 75Ω terminate.

≪SET UP≫

IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)
S-VHS REC: ON (MENU NO. 2006-01)

1. Connect the oscilloscope to VIDEO OUT and expanded the "A" partion as shown in Figure E34.
2. Set the SW3402 to position 4.
3. Playback the sin² pulse bar signal other recorded tape by S-VHS mode.
4. Adjust VR3402 and SW3102 so that the waveform becomes as shown in Figure E35.

4-5-20. PB VHS EDIT Y/C DELAY ADJ.

A. *FOR AG-7700*

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO OUT (75Ω)
ADJ.	VR3101 (C-1), SW3401 (F-1)
TAPE	SIN² PULSE & BAR SIGNAL SELF RECORDED TAPE (S-VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	0nsec±30nsec (REFER TO FIG E35)

≪SET UP≫

IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)
S-VHS REC: OFF (MENU NO. 2006-00)

1. Connect the oscilloscope (W.F.M) to VIDEO OUT and expanded the "A" portion as shown in Figure E34.
2. Playback the sin² pulse bar signal self recorded tape by VHS mode.
3. Adjust VR3101 and SW3102 so that the waveform becomes as shown in Figure E35.

B. *FOR AG-7600*

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO OUT (75Ω)
ADJ.	VR3101 (C-1), SW3401 (F-1)
TAPE	SIN² PULSE BAR SIGNAL OTHER RECORDED TAPE (VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	0nsec±30nsec (REFER TO FIG E35)

≪SET UP≫

IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)

1. Connect the oscilloscope (W.F.M) to VIDEO OUT and expanded the "A" partion as shown in Figure E34.
2. Set the SW3401 to position 3.
3. Playback the sin² pulse bar signal other recorded tape by VHS mode.
4. Adjust VR3101 and SW3102 so that the waveform becomes as shown in Figure E35.

4-5-21. CAC Y/C DELAY ADJ.

A. FOR AG-7700

BOARD	VIDEO YC C.B.A. (E6)
TP	VIDEO OUT (75Ω)
ADJ.	VR3408 (D-1)
TAPE	SIN² PULSE & BAR SIGNAL SELF RECORDED TAPE (VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	A=B±2%

≪NOTE≫

This adjustment should be performed only after completion of 4-5-19 PB S-VHS Edit Y/C Delay Adj and 4-5-20 PB VHS Edit Y/C Delay Adj.

≪SET UP≫

IMAGE MODE SELECT: NOR (MENU NO. 2001-00)
S-VHS REC: OFF (MENU NO. 2006-00)

1. Connect the oscilloscope (W.F.M) to VIDEO OUT and expanded the "A" portion as shown in Figure E34.
2. Playback the sin² pulse bar signal self recorded tape by VHS mode.
3. Adjust VR3408 so that the waveform becomes as shown in Figure E36.

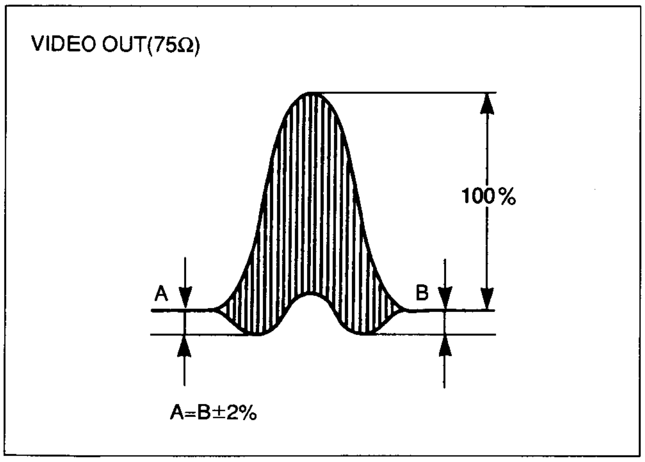


Figure E36

B. FOR AG-7600

BOARD	VIDEO YC C.B.A. (E6)
TP	VIDEO OUT (75Ω)
ADJ.	VR3408 (D-1)
TAPE	SIN² PULSE & BAR SIGNAL OTHER RECORDED TAPE (VHS)
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	A=B±2%

≪NOTE≫

This adjustment should be performed only after completion of 4-5-19 PB S-VHS Edit Y/C delay Adj and 4-5-20 PB VHS Edit Y/C delay Adj.

≪SET UP≫

IMAGE MODE SELECT: NOR (MENU NO. 2001-00)
S-VHS REC: OFF (MENU NO. 2006-00)

1. Connect the oscilloscope (W.F.M) to VIDEO OUT and expanded the "A" portion as shown in Figure E34.
2. Playback the sin² pulse bar signal other recorded tape by VHS mode.
3. Adjust VR3408 so that the waveform becomes as shown in Figure E36.

4-5-22. S-VHS REC DELAY ADJ. (AG-7700 only)

BOARD	YC REC C.B.A. (E13)
TP	VIDEO OUT
ADJ.	VR9212
TAPE	S-VHS BLANK TAPE
INPUT	SIN² PULSE & BAR SIGNAL (LINE)
MODE	REC → PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	FIG

≪NOTE≫

This adjustment should be performed only after completion of 4-5-19 PB S-VHS Edit Y/C Delay Adj.

≪SET UP≫

S-VHS REC: ON (MENU NO. 2006-01)
IMAGE MODE SELECT: EDIT (MENU NO. 2001-00)
VIDEO LEVEL CONTROL: PUSH (AGC: ON)
INPUT: LINE

1. Connect a oscilloscope to VIDEO OUT.
2. Supply a sin² palse & bar signal to LINE IN.
3. Record the sin² palse & bar signal for few minites by the S-VHS mode.
4. Playback the just recorded portion.
5. If the Y signal is advanced (FIG E37-A) turn VR9212 to counter clockwise.

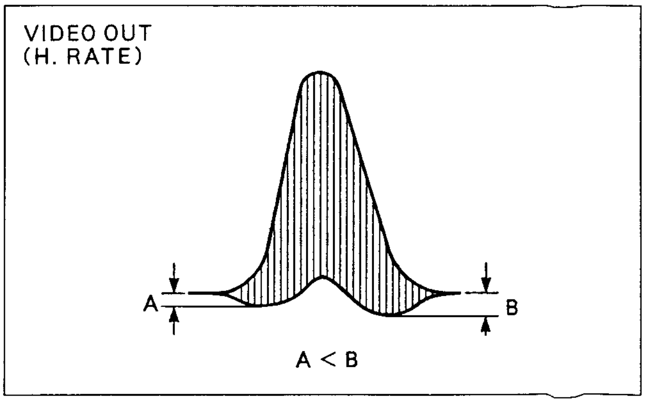


Figure E37-A

6. If the Y signal delayed (FIG E37-B) turn VR9212 to clockwise.

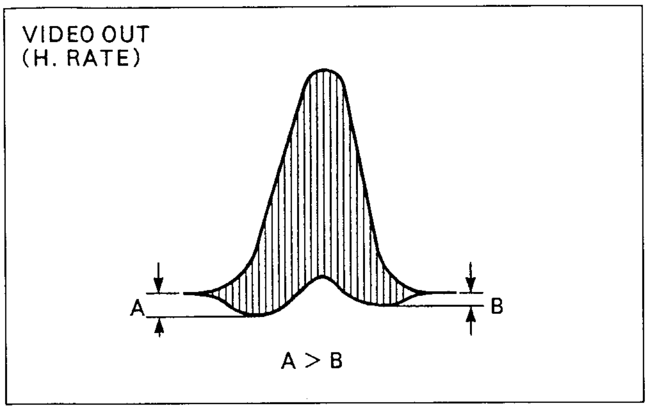


Figure E37-B

7. Repeat the above procedure (Step 3 to 6) until the waveform becomes as shown in Figure E37-C.

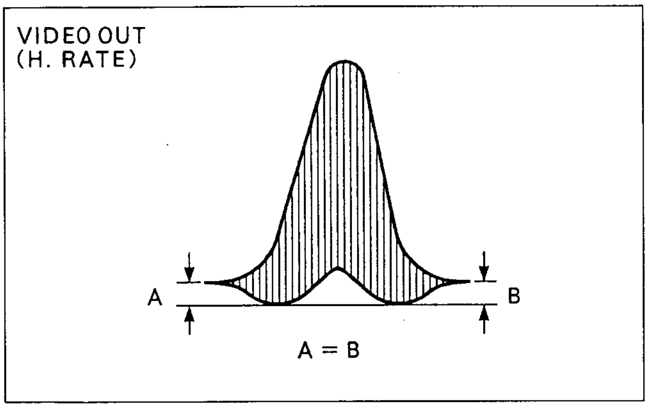


Figure E37-C

4-5-23. VHS REC DELAY ADJ. (AG-7700 only)

BOARD	YC REC C.B.A. (E13)
TP	VIDEO OUT
ADJ.	VR9222
TAPE	VHS BLANK TAPE
INPUT	SIN² PULSE & BAR SIGNAL (LINE)
MODE	REC → PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	FIG

≪NOTE≫

This adjustment should be performed only after completion of 4-5-20 PB VHS Edit Y/C Delay Adj.

≪SET UP≫

S-VHS REC: OFF (MENU NO. 2006-00)
IMAGE MODE SELECT: EDIT (MENU NO. 2001-01)
VIDEO LEVEL CONTROL: PUSH (AGC: ON)
INPUT: LINE

1. Connect a oscilloscope to VIDEO OUT.
2. Supply a sin² palse & bar signal to LINE IN.
3. Record the sin² palse & bar signal for few minites by the VHS mode.
4. Playback the just recorded portion.
5. If the Y signal is advanced (FIG E37-A) turn VR9222 to counter clockwise.
6. If the Y signal delayed (FIG E37-B) turn VR9222 to clockwise.
7. Repeat the above procedure (Step 3 to 6) until the waveform becomes as shown in Figure E37-C.

4-5-24. ARTIFICIAL V-SYNC ADJ.

BOARD	VIDEO I/O C.B.A. (E5)
TP	VIDEO OUT, TP41003 (TRIG.)
ADJ.	VR3401 (F-1)
TAPE	VFM8180HADH, PORTION: 2
INPUT	
MODE	SHUTTLE (×2 PLAY)
M. EQ	OSCILLOSCOPE
SPEC.	T=1.0H±0.25H

≪SET UP≫

VIDEO MODE: B/W (MENU NO. 2002-02)

1. Adjust VR3401 so that the artifical V-sync pulse becomes 1.0H±0.25H before the V-sync portion as shown in Figure E38.

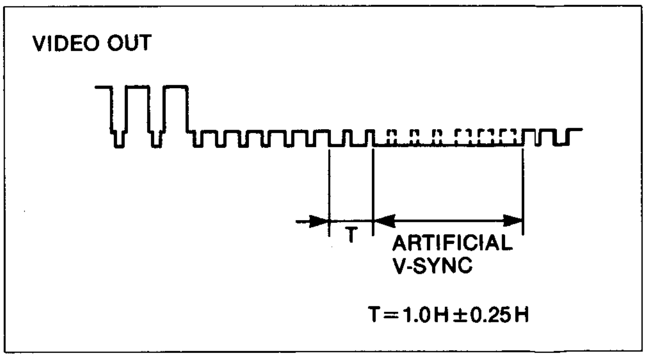


Figure E38

4-6. AUDIO SECTION

Unless otherwise specified, the following connections are used to check the output and input levels from/to the AUDIO OUT and IN jacks (XLR) as shown in Figure E39A.

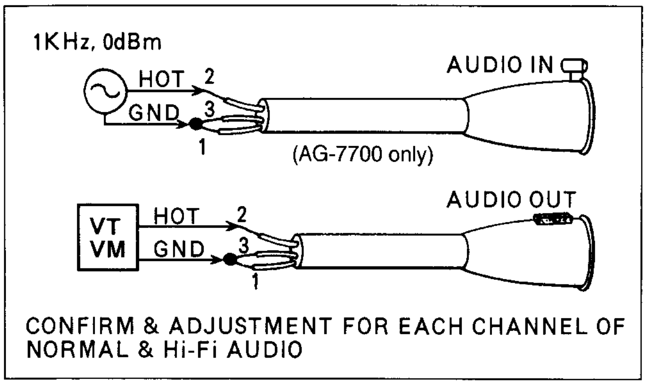


Figure E39-A

And connect the AG-7700 and Audio Meter (V.T.V.M. or D.V.M.) in parallel as shown in Figure E39-B when you check the level of input signal.
(0dBm=0.775Vrms=2.19Vp-p)

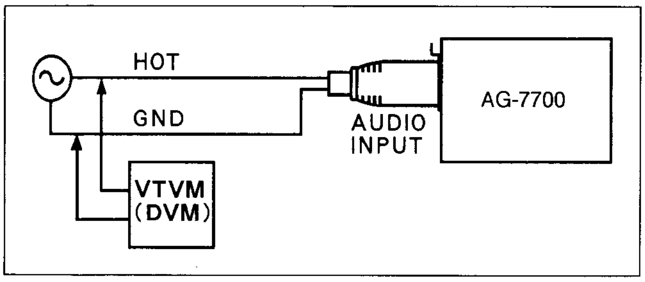


Figure E39-B

Please note that the Audio Output Level Switch is located on the AUDIO (2) C.B.A. (C-1)

4-6-1. NORMAL AUDIO INPUT LEVEL ADJ. (AG-7700 only)

BOARD	AUDIO (1) C.B.A. (E7)
TP	NORM/Hi-Fi AUDIO OUT (CH1/CH2)
ADJ.	VR40011 (CH1) (E-1), VR40012 (CH2) (E-1)
TAPE	
INPUT	1KHz, 0dBm SINE WAVE SIGNAL
MODE	EJECT (E-E)
M. EQ	V.T.V.M. (D.V.M.)
SPEC.	0dBm±0.2dBm

≪SET UP≫
PB/EE SEL: EE (MENU NO. 2004-01)
S-VHS REC: OFF (MENU NO. 2006-00)
IMAGE MODE: NORM (MENU NO. 2001-00)
DOLBY NR: OFF (MENU NO. 3001-00)
AUDIO LIMITER: OFF (MENU NO. 3002-00)
CH1 REC: CH1 (MENU NO. 3005-00)
AUDIO CH2: AUDIO (MENU NO. 3006-00)
INPUT AUDIO LEVEL SW (NORM: Hi-Fi): 0dBs
OUTPUT AUDIO LEVEL SW: 0dBs
AUDIO OUT SELECT SW: NORM
NORM AUDIO (CH1/2) LEVEL CONTROL: CENTER

1. Supply a 1KHz, 0dBm sine wave signal to the NORM/Hi-Fi AUDIO (CH1 & CH2) INPUTs.
2. Adjust VR40011 (CH1) and VR40012 (CH2) so that the level becomes 0dBm±0.2dBm.

4-6-2. Hi-Fi AUDIO INPUT LEVEL ADJ. (AG-7700 only)

BOARD	AUDIO (2) C.B.A.
TP	Hi-Fi AUDIO OUT (CH1/CH2)
ADJ.	VR41008 (CH1) (D-1), VR41009 (CH2) (E-1)
TAPE	
INPUT	1KHz, 0dBm SINE WAVE SIGNAL
MODE	EJECT (E-E)
M. EQ	V.T.V.M. (D.V.M.)
SPEC.	0dBm±0.2dBm

≪SET UP≫
IMAGE MODE: NORM (MENU NO. 2001-00)
PB/EE SEL: EE (MENU NO. 2004-01)
S-VHS REC: OFF (MENU NO. 2006-00)
INPUT AUDIO LEVEL SW (Hi-Fi): 0dBs
OUTPUT AUDIO LEVEL SW: 0dBs
Hi-Fi AUDIO (CH1/2) LEVEL CONTROL: CENTER
AUDIO OUT SELECT SW: Hi-Fi

1. Supply a 1KHz, 0dBm sine wave signal to the Hi-Fi AUDIO (CH1 & CH2) INPUTs.
2. Adjust VR41008 (CH1) and VR41009 (CH2) so that the level becomes 0dBm±0.2dBm.

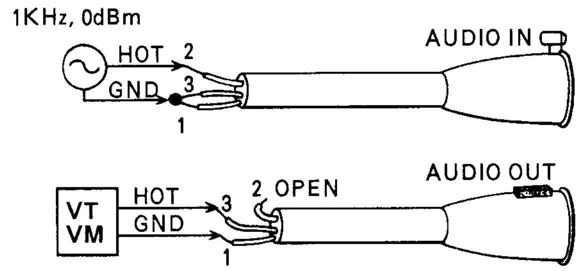
4-6-3. AUDIO JACK OUTPUT BALANCE ADJ.

A. FOR AG-7700

BOARD	REAR AMP C.B.A. (E28)
TP	NORM/Hi-Fi AUDIO OUT (CH1, CH2) Hi-Fi AUDIO OUT (CH1, CH2)
ADJ.	NOR: VR4007 (CH1) (C-2), VR4008 (CH2) (C-1) Hi-Fi: VR4005 (CH1) (C-2), VR4006 (CH2) (C-1)
TAPE	
INPUT	1KHz, 0dBm SINE WAVE SIGNAL
MODE	EJECT (E-E)
M. EQ	V.T.V.M. (D.V.M.)
SPEC.	LESS THAN 68Vrms

1. Supply a 1KHz, 0dBm sine wave signal to the NORM/Hi-Fi (CH1 & CH2) Audio Inputs.

2. Connect the V.T.V.M. (D.V.M.) to NORM/Hi-Fi AUDIO OUT (CH1 & CH2) as shown in Figure E40.
3. Adjust VR4007 (CH1) and VR4008 (CH2) so that the level becomes minimum (less than 68mVrms).
4. Connect the V.T.V.M. (D.V.M.) to the Hi-Fi AUDIO OUT (CH1 & CH2) as shown in Figure E40.
5. Adjust VR4005 (CH1) and VR4006 (CH2) so that the level becomes minimum (less than 68mVrms).
6. Perform 4-6-1. Normal Audio Input Level Adj. and/or 4-6-2. Hi-Fi Audio Input Level Adj. again if VR4007 (CH1) VR4008 and/or VR4005 (CH1), VR4006 (CH2) are adjustted.



CONFIRM & ADJUSTMENT FOR EACH CHANNEL OF NORMAL & Hi-Fi AUDIO

Figure E40

B. FOR AG-7600

BOARD	REAR AMP C.B.A. (E28)
TP	NORM/Hi-Fi AUDIO OUT (CH1, CH2) Hi-Fi AUDIO OUT (CH1, CH2)
ADJ.	NOR: VR4007 (CH1) (C-2), VR4008 (CH2) (C-1) Hi-Fi: VR4005 (CH1) (C-2), VR4006 (CH2) (C-1)
TAPE	1KHz, 0dBm SINE WAVE SIGNAL RECORDED TAPE (NORM & Hi-Fi)
INPUT	
MODE	PLAYBACK
M. EQ	V.T.V.M. (D.V.M.)
SPEC.	LESS THAN 68mVrms

≪SET UP≫
AUIDO CH2
AUIDO OUT SELECT SW
OUTPUT AUDIO LEVEL SW (NOR/Hi-Fi): 0dB
NORMAL AUDIO LEVEL CONTROL: CENTER
Hi-Fi AUDIO LEVEL CONTROL: CENTER

1. Connect the V.T.V.M. (D.V.M.) to the NORM/Hi-Fi AUDIO OUT (CH1, CH2) as shown in Figure E40.
2. Playback the 1KHz 0dBm sine wave signal ather recorded tape (NORM/Hi-Fi).
3. Adjust VR4007 (CH1) and VR4008 (CH2) so that the level becomes minimum (less than 68mVrms).
4. Connect the V.T.V.M. (D.V.M.) to the Hi-Fi AUDIO OUT (CH1/CH2) as shown in Figure E40.
5. Adjust VR4005 (CH1) and VR4006 (CH2) so that the level becomes minimum (less than 68mVrms).

4-6-4. AUDIO LEVEL METER ADJ.

A. FOR AG-7700

BOARD	AUIDO (2) C.B.A. (E8)
TP	AUDIO METER (CH1, CH2)
ADJ.	VR41012 (CH1) (B-1), VR41013 (CH2) (B-1)
TAPE	
INPUT	1KHz, 0dBm SINE WAVE SIGNAL
MODE	EJECT (E-E)
M. EQ	
SPEC.	NORM: 0±0.5Vu Hi-Fi: 0±1.5Vu

≪NOTE≫
This adjustment should be performed only after completion of 4-6-1 Normal Audio Input Adj. and 4-6-2 Hi-Fi Audio Input Adj.

≪SET UP≫
IMAGE MODE: NORM (MENU NO. 2001-00)
PB/EE SEL: EE (MENU NO. 2004-01)
S-VHS REC: ON (MENU NO. 2006-01)
DOLBY NR: OFF (MENU NO. 3001-00)
AUDIO LIMITER: OFF (MENU NO. 3002-00)
CH1 REC: CH1 (MENU NO. 3005-00)
Hi-Fi REC: ON (MENU NO. 3003-01)
INPUT AUDIO LEVEL SW (NORM: Hi-Fi): 0dBs
INPUT AUDIO LEVEL SW (Hi-Fi): 0dBs
OUTPUT AUDIO LEVEL SW: 0dBs
AUDIO OUT SELECT SW: NORM
AUDIO (CH1/2) LEVEL CONTROL: CENTER

1. Supply a 1KHz, 0dBm sine wave signal to the NORM/Hi-Fi AUDIO (CH1 & CH2) INPUTs.
2. Set the AUDIO Meter SELECT SW to NORM.
3. Adjust VR41012 (CH1) and VR41013 (CH2) so that the needle of Audio level Meter (CH1 & CH2) reaches "0± 0.5Vu" as shown in Figure E41.
4. Set the AUDIO METER SELECT SW to Hi-Fi.
5. Supply a 1KHz, 0dBm sine wave signal to the Hi-Fi AUDIO (CH1 & CH2) inputs.
6. Confirm the Hi-Fi level Meter (CH1 & CH2) reader "0± 1.5Vu".

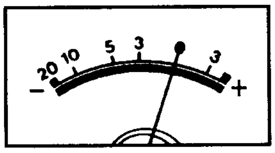


Figure E41

B. FOR AG-7600

BOARD	AUIDO (2) C.B.A. (E8)
TP	AUDIO METER (CH1, CH2)
ADJ.	VR41012 (CH1) (B-1), VR41013 (CH2) (B-1)
TAPE	1KHz, 0dBm SINE WAVE SIGNAL OTHER RECORDED TAPE (Hi-Fi)
INPUT	
MODE	PLAYBACK
M. EQ	
SPEC.	0Vu±0.5Vu

≪NOTE≫
This adjustment should be performed only after completion of 4-6-15 Audio Output Level A.

≪SET UP≫
METER SELECT SW: Hi-Fi

1. Playback the 1KHz, 0dBm sine wave signal other recorded tape.
2. Adjust VR41012 (CH1), VR41013 (CH2) so that the needle of Audio Level Meter (CH1 & CH2) reaches "0Vu±0.5Vu" as shown in Figure E41.

4-6-5. NORMAL AUDIO PB FREQUENCY RESPONSE ADJ.

A. FOR AG-7700

BOARD	AUDIO (1) C.B.A. (E7)
TP	TP40005 (CH1) (G-1), TP40007 (CH2) (E-1)
ADJ.	VR40002 (CH1) (F-1), VR40007 (CH2) (D-1)
TAPE	VFM8180HADH, PORTION: 3
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	400Hz=5KHz (0dB±0.5dB)

≪NOTE≫
After this adjustment is finished adjust 4-6-6 Normal Audio PB Gain Adj.

≪SET UP≫
DOLBY NR: OFF (MENU NO. 3001-00)
AUDIO CH2: AUDIO (MENU NO. 3006-00)
IMAGE MODE: NORM (MENU NO. 2001-00)

1. Set the VR40003 and VR40008 to the center position.
2. Playback the alignment tape at portion 3.
3. Connect a osilloscope to TP40005 and TP40007.
4. Adjust VR40002 (CH1) and VR40007 (CH2) so that the 400Hz and 5KHz levels become the same (0dBm± 0.5dBm) as shown in Figure E42.

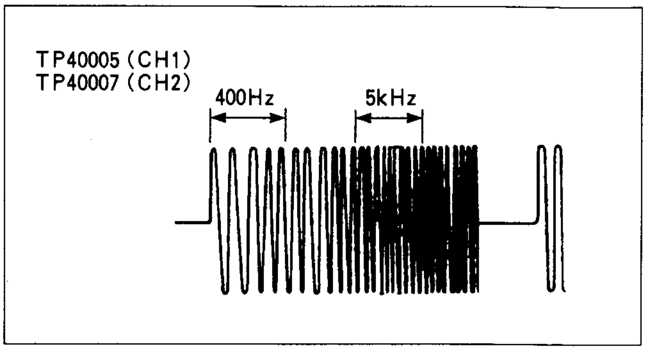


Figure E42

B. FOR AG-7600

BOARD	AUDIO (1) C.B.A. (E7)
TP	TP40005 (CH1) (G-1), TP40007 (CH2) (E-1)
ADJ.	VR40002 (CH1) (F-1), VR40007 (CH2) (D-1)
TAPE	VFM8180HADH, PORTION: 3
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	400Hz=5KHz (0dB±0.5dB)

≪SET UP≫
DOLBY NR: OFF (MENU NO. 3001-00)
AUDIO CH2: AUDIO (MENU NO. 3006-00)

1. Set the VR40003 and VR40008 to the Center position.
2. Play back the alignment tape at portion 3.
3. Connect a osilloscope to TP40005 and TP40007.
4. Adjust VR40002 (CH1) and VR40007 (CH2) so that the 400Hz and 5KHz levels becoms the same (0dB±0.5dB) as shown in Figure E42.

4-6-6. NORMAL AUDIO PB GAIN ADJ. (AG-7700 only)

BOARD	AUDIO (1) C.B.A. (E7)
TP	TP40005 (CH1) (G-1), TP40007 (CH2) (E-1)
ADJ.	VR40003 (CH1) (F-1), VR40008 (CH2) (D-1)
TAPE	VFM8180HADH, PORTION: 3
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	CH1: 300mVp-p±15mV CH2: 310mVp-p±15mV

≪SET UP≫
DOLBY NR: OFF (MENU NO. 3001-00)
AUDIO CH2: AUDIO (MENU NO. 3006-00)

1. Connect a scope to TP40005 (CH1) and TP40007 (CH2), and adjust VR40003 (CH1) and VR40008 (CH2) so that the levels becomes 300mVp-p±15mVp-p (CH1) and 310mVp-p±15mVp-p (CH2) as shown in Figure E43.

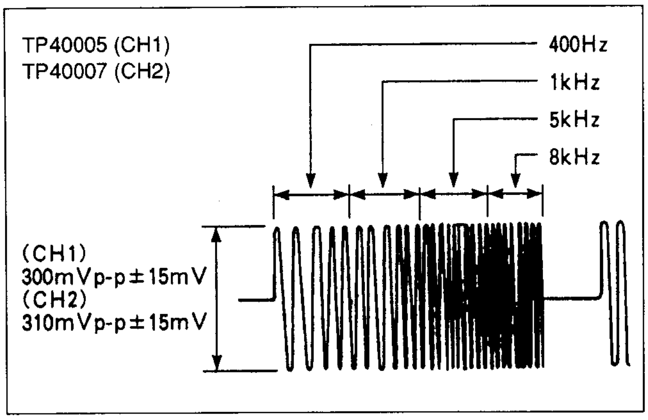


Figure E43

4-6-7. NORMAL AUDIO ERASE CURRENT ADJ. (AG-7700 only)

BOARD	AUDIO (1) C.B.A. (E7)
TP	TP40002 (CH1) (A-3), TP40004 (CH2) (B-3)
ADJ.	TL40002 (A-3), TL40003 (CH1) (A-3), TL40004 (CH2) (B-3)
TAPE	BLANK TAPE
INPUT	
MODE	REC
M. EQ	FREQUENCY COUNTER, OSCILLOSCOPE
SPEC.	70KHz±1KHz

≪SET UP≫
S-VHS REC: ON (MENU NO. 2006-01)
CH1 REC: CH1 (MENU NO. 3005-00)
AUDIO CH2: AUDIO (MENU NO. 3006-00)

1. Connect a frequency counter to TP40002 and adjust TL40002 so that the frequency becomes 70KHz±1KHz.
2. Connect the oscilloscope to TP40002 (CH1) and TP40004 (CH2), and adjust TL40003 (CH1) and TL40004 (CH2) so that the level becomes maximum.

4-6-8. NORMAL AUDIO BIAS CURRENT ADJ. (AG-7700 only)

BOARD	AUDIO (1) C.B.A. (E7)
TP	A/C HEAD
ADJ.	S-VHS: TL 40001 (CH1) (A-2), TL40005 (CH2) (B-2) VHS: VR40004 (CH1) (A-1), VR40009 (CH2) (A-1)
TAPE	VHS, S-VHS BLANK TAPE
INPUT	NO SIGNAL
MODE	REC
M. EQ	V.T.V.M. (D.V.M.)
SPEC.	S-VHS:6.7±0.1mVrms VHS: 5.0±0.1mVrms

≪SET UP≫
S-VHS REC: ON (MENU NO. 2006-01)
CH1 REC: CH1 (MENU NO. 3005-00)
AUDIO CH2: AUDIO (MENU NO. 3006-00)

1. Insert the S-VHS blank tape and place the deck in the REC mode.
2. Connect the V.T.V.M. (D.V.M.) to the A/C Head as shown in Figure E44.
3. Adjust TL40001 (CH1) and TL40005 (CH2) so that the level becomes 6.7mVrms±0.1mVrms.
4. Insert the VHS blank tape and place the deck in the REC mode.
5. Adjust VR40004 (CH1) and VR40009 (CH2) so that the level becomes 5.0mVrms±0.1mVrms.

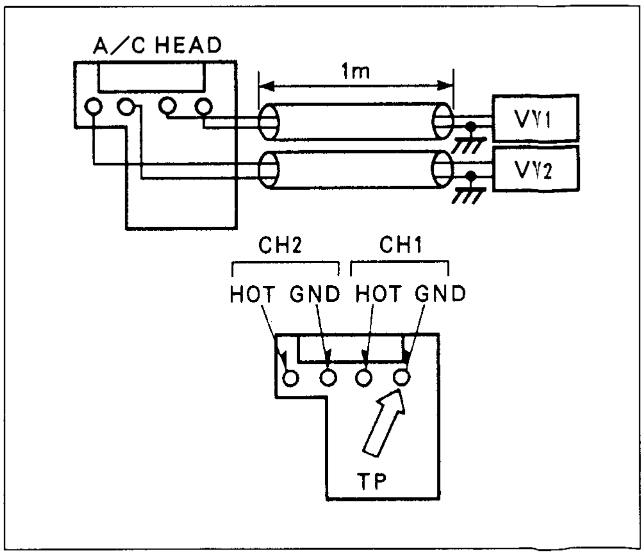


Figure E44

4-6-9. NORMAL AUDIO REC CURRENT ADJ. (AG-7700 only)

BOARD	AUDIO (1) C.B.A. (E7)
TP	NORM/Hi-Fi AUDIO OUT, Hi-Fi AUDIO OUT TP40003 (CH1) (B-3), TP40006 (CH2) (C-1)
ADJ.	VR40005 (CH1) (E-1), VR40010 (CH2) (D-1)
TAPE	S-VHS BLANK TAPE
INPUT	1KHz 0dBm SINE WAVE SIGNAL
MODE	REC & PLAY
M. EQ	V.T.V.M. (D.V.M.)
SPEC.	0dBm±1dBm

≪SET UP≫
S-VHS REC: ON (MENU NO. 2006-01)
DOLBY NR: OFF (MENU NO. 3001-00)
AUDIO LIMITER: OFF (MENU NO. 3002-00)
CH1 REC: CH1 (MENU NO. 3005-00)
AUIDO CH2: AUDIO (MENU NO. 3006-00)
INPUT AUDIO LEVEL SW (NORM/Hi-Fi): 0dBs
NORM AUDIO (CH1/2) LEVEL CONTROL: CENTER

1. Connect the V.T.V.Ms to the deck as shown in Figure E54. Note that only one channel will be adjusted at a time.
2. Supply a 1KHz, 0dBm sine wave signal to NORM/Hi-Fi AUDIO INPUT (CH1).
3. Place the deck in the REC mode with S-VHS mode.
4. Adjust VR40005 (CH1) so that V.T.V.M. (2) reads approximately 0.8Vrms.
   Suppose that the indicated value on V.T.V.M. (1) is 0dBm.
5. Playback the recorded portion, and note the amount of difference between V.T.V.M. (1) and (2).
6. Place the deck in the REC mode again, and re-adjust VR40005 (CH1) slightly, and repeat step 5, nothing the new difference.
7. Repeat this step 3 to 6 until record and playback difference is minimized (0dBm±1dBm).
8. Repeat the above procedure again for channel 2, using the other set of test point (TP40006) and VR (VR40010).

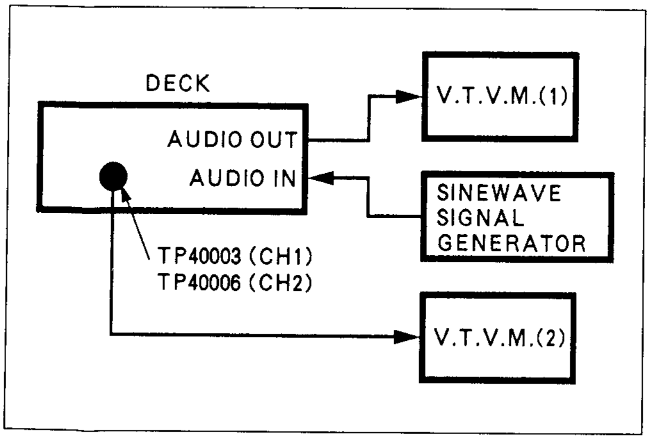


Figure E45

4-6-10. NORMAL AUDIO TIME CODE METER ADJ.

A. FOR AG-7700

BOARD	AUDIO (1) C.B.A. (E7)
TP	AUDIO CH2 METER
ADJ.	VR41014 (A-1)
TAPE	
INPUT	TIME CODE SIGNAL (or 300Hz, 1Vp-p sine wave signal)
MODE	REC
M. EQ	
SPEC.	0Vu±0.5Vu

≪SET UP≫
S-VHS REC: OFF (MENU NO. 2006-00)
AUDIO CH2: LTC (MENU NO. 3006-01)
CH2 METER: AUDIO CH2

1. Supply a Time Code Signal (or 300Hz, 1Vp-p sine wave signal) to the TIME CODE IN connector..
2. Adjust VR41014 so that the needle of Audio level CH2 Meter reaches "0Vu±0.5Vu" as shown in Figure E46.

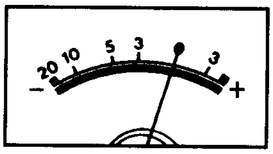


Figure E46

B. FOR AG-7600

BOARD	AUDIO (1) C.B.A. (E8)
TP	AUDIO CH2 METER
ADJ.	VR41014 (A-1)
TAPE	TIME CODE SIGNAL (OR 300Hz, 1Vp-p SINE WAVE SIGNAL)
INPUT	
MODE	PLAYBACK
M. EQ	
SPEC.	0Vu±0.5Vu

≪SET UP≫
AUDIO CH2: LTC (MENU NO. 3006-01)
CH2 METER: AUDIO CH2

1. Playback the Time Code signal (or 300Hz, 1Vp-p sine wave signal) other recorded tape.
2. Adjust VR41014 so that the needle of Audio level CH2 Meter reaches "0Vu±0.5Vu" as shown in Figure E46.

4-6-11. Hi-Fi AUDIO HEAD SWITCHING SHIFTER ADJ.

BOARD	AUDIO (2) C.B.A. (E8)
TP	TP41004 (F-1): FM.H.SW, TP41006 (F-1): FM ENV
ADJ.	VR41004
TAPE	VFM8180HADH, PORTION: 2
INPUT	
MODE	PLAYBACK
M. EQ	OSCILLOSCOPE
SPEC.	FIG. E47

≪NOTE≫

This adjustment should be performed only after completion of 4-3-1 PG Shifter Adj.

≪SET UP≫

S-VHS REC: ON (MENU NO. 2006-01)

1. Connect the scope to TP41004 and TP41006 on the AUDIO (2) C.B.A.
2. Playback the alignment tape at portion 2.
3. Adjust VR41004 so that disappear the drop-out at the (a) and (b) position as shown in Figure E47.
4. Turn the Tracking VR and then confirm that disappear the drop-out at the (a) and (b) positions.
5. If not, repeat the steps 3 and 4 until that disappear the drop-out.

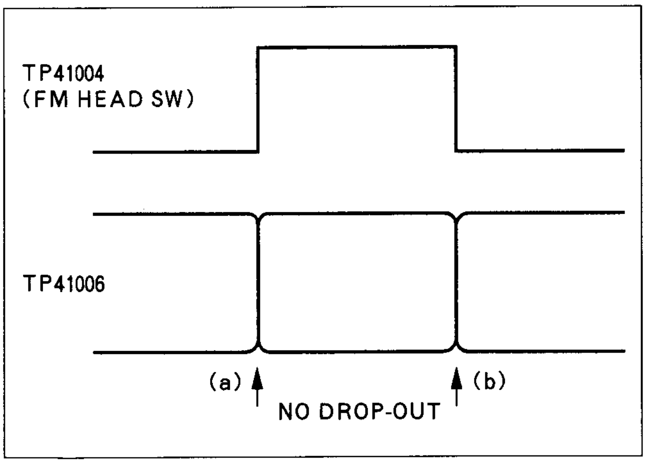


Figure E47

4-6-12. Hi-Fi AUDIO CARRIER FREQUENCY ADJ.

A. FOR AG-7700

BOARD	AUDIO (2) C.B.A. (E8)
TP	TP41005 (CH1) (F-2), TP41008 (CH2) (F-3)
ADJ.	VR41002 (CH1) (F-2), VR41006 (CH2) (F-3)
TAPE	
INPUT	NO SIGNAL
MODE	EJECT (E-E)
M. EQ	FREQUENCY COUNTER
SPEC.	CH1: 1.4MHz±10KHz CH2: 1.8MHz±10KHz

≪NOTE≫

If the signal level is too low to trigger frequency counter, adjust VR41003 (L CH) and VR41007 (R CH) clockwise. And then refer to 4-6-14 Hi-Fi Audio REC Current Adj. for the correct setting of these VRS, after this adjustment.

≪SET UP≫

S-VHS REC: ON (MENU NO. 2006-01)
Hi-Fi INPUT SELECT: Hi-Fi INPUT (MENU NO. 3004-00)

1. Ground the Hi-Fi Audio Input (CH1 & CH2).
2. Connect the frequency counter to TP41005 (CH1) and adjust VR41002 (CH1) so that the frequency becomes 1.4MHz±10KHz.
3. Connect the frequency counter to TP41008 (CH2) and adjust VR41006 (CH2) so that the frequency becomes 1.8MHz±10KHz.

B. FOR AG-7600

BOARD	AUDIO (2) C.B.A. (E8)
TP	TP41005 (CH1) (E-2), TP41008 (CH2) (F-3)
ADJ.	VR41002 (CH1) (F-2), VR41006 (CH2) (F-3)
TAPE	
INPUT	
MODE	EJECT
M. EQ	FREQUENCY COUNTER
SPEC.	CH1: 1.4MHz±10KHz CH2: 1.8MHz±10KHz

1. Connect the frequency counter to TP41005 (CH1) and adjust VR41002 (CH1) so that the frequency becomes 1.4MHz±10KHz.
2. Connect the frequency counter to TP41008 (CH2) and adjust VR41006 so that the frequency becomes 1.8MHz ±10KHz.

4-6-13. Hi-Fi AUDIO DEVIATION ADJ. (AG-7700 only)

BOARD	AUDIO (2) C.B.A. (E8)
TP	Hi-Fi AUDIO OUTPUT (CH1), (CH2)
ADJ.	VR41001 (CH1) (F-1), VR41005 (CH2) (E-1)
TAPE	VFM8180HADH PORTION: 2
INPUT	
MODE	PLAYBACK
M. EQ	V.T.V.M. (D.V.M)
SPEC.	0dBm±0.5dBm

≪SET UP≫
OUTPUT AUDIO LEVEL (Hi-Fi): 0dB

1. Playback the alignment tape VFM810HADH portion 2.
2. Connect a V.T.V.M. to the Hi-Fi Audio Outputs (CH1, CH2).
3. Adjust VR41001 (CH1) so that level becomes 0dBm± 0.5dBm.
4. Adjust VR41005 (CH2) so that level becomes 0dBm± 0.5dBm.

4-6-14. Hi-Fi AUDIO REC CORRENT ADJ. (AG-7700 only)

BOARD	AUDIO (2) C.B.A. (E8)
TP	TP5001 (B-4)
ADJ.	VR41007 (E-1), VR41003 (F-1)
TAPE	S-VHS BLANK TAPE
INPUT	NO SIGNAL
MODE	REC
M. EQ	OSCILLOSCOPE
SPEC.	CH1: 320mVp-p±5mVp-p CH2: 240mVp-p±5mVp-p

≪SET UP≫
S-VHS REC: ON (MENU NO. 2006-01)
Hi-Fi REC: ON (MENU NO. 3003-01)
Hi-Fi INPUT SELECT: Hi-Fi INPUT (MENU NO. 3004-00)

1. Ground the Hi-Fi Auido Input.
2. Turn VR41003 fully counter clockwise.
3. Adjust VR41007 so that the level becomes 240mVp-p± 5mVp-p as shown in Figure E48-A.

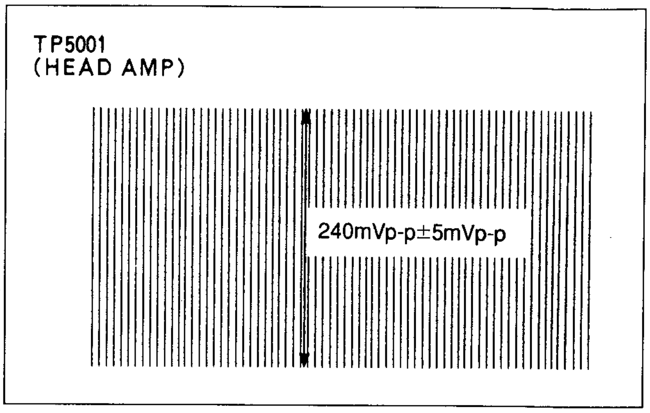


Figure E48-A

4. Adjust VR41003 so that the level becomes 320mVp-p± 5mVp-p as shown in Figure E48-B.

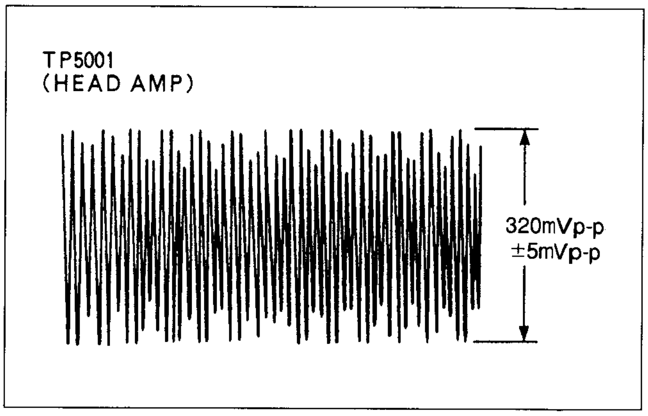


Figure E48-B

4-6-15. NORMAL AUDIO OUTPUT LEVEL ADJ. (AG-7600 only)

BOARD	AUDIO (1)/(2) C.B.A. (E7) (E8)
TP	NORMAL/Hi-Fi AUDIO OUT (CH1, CH2)
ADJ.	NORM : VR40003 (CH1) (F-1), VR40008 (CH2) (D-1) Hi-Fi : VR41001 (CH1) (F-1), VR41005 (CH2) (E-1)
TAPE	1KHz, 0dBm SINE WAVE SIGNAL OTHER RECORDED TAPE (NORM and Hi-Fi)
INPUT	
MODE	PLAYBACK
M. EQ	V.T.V.M. (D.V.M.)
SPEC.	NORM: +2dBm±0.5dBm Hi-Fi: 0dBm±0.5dBm

≪SET UP≫
AUDIO OUT SELECT SW: NORM
OUTPUT AUDIO LEVEL: 0dBs.

1. Playback the 1KHz, 0dBm sine wave signal recorded tape (NORM/Hi-Fi).
2. Connect the V.T.V.M. (D.V.M.) to the NORM/Hi-Fi AUDIO OUT (CH1, CH2).
3. Adjust VR40003 (CH1) and VR40008 (CH2) so that the level becomes +2dBm±0.5dBm.
4. Set the AUDIO OUT SELECT SW to Hi-Fi.
5. Adjust VR41001 (CH1) and VR41005 (CH2) so that the level becomes 0dBm±0.5dBm.

4-7. OTHER SECTION

4-7-1. VITC MUTE PULSE ADJ. (AG-7700 only)

BOARD	TIME CODE C.B.A. (E10)
TP	TP68003 (B-14), TP9108 (B-1) :YC REC C.B.A.
ADJ.	VR68001 (B-14)
TAPE	S-VHS BLANK
INPUT	COLOUR BAR SIGNAL (LINE)
MODE	REC
M. EQ	OSCILLOSCOPE
SPEC.	T=1μsec±0.3μsec

≪SET UP≫
VITC REC: ON (MENU NO. 7003-01)
INPUT SW: LINE
ALL DEL SW (SW68001: TC C.B.A.): ON

1. Connect a scope to TP9108 for CH-1 and TP68003 for CH-2 and expand V-Sync portion as shown in Figure E49.
2. Adjust VR68001 so that the "T" becomes 1μsec± 0.3μsec as shown in Figure E49.

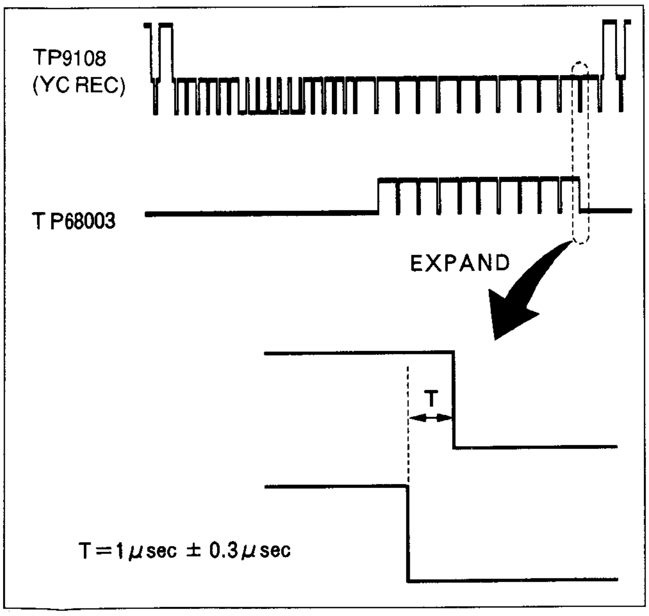


Figure E49

4-7-2. OSD CHARACTER WIDTH ADJ.

BOARD	REAR AMP C.B.A. (E28)
TP	VIDEO MONITOR OUT
ADJ.	CT6601 (B-7)
TAPE	
INPUT	NO SIGNAL
MODE	EJECT (E-E)
M. EQ	OSCILLOSCOPE
SPEC.	T=52μsec±0.5μsec

≪SET UP≫
DIAL MODE: MENU

1. Connect the oscilloscope to VIDEO MONITOR OUT.
2. Turn the JOG dial so that the SET UP-MENU NO. becomes 1001 (flash).
3. Adjust CT6601 so that the "T" becomes 52μsec± 0.5μsec as shown Figure E50.

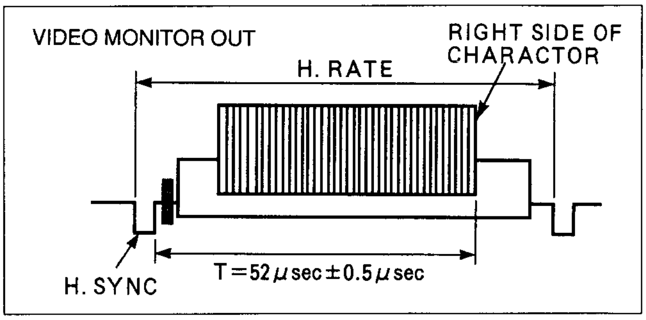


Figure E50

4-7-3. FLYING ERASE CURRENT ADJ. (AG-7700 only)

BOARD	AUDIO (2) C.B.A. (E8)
TP	TP41009 (HOT) (A-1), TP41010 (GND) (A-1)
ADJ.	VR41016 (B-1), VR41015 (B-1)
TAPE	S-VHS RECORDED TAPE (S-VHS)
INPUT	COLOUR BAR SIGNAL (LINE)
MODE	VIDEO INSERT EDIT
M. EQ	OSCILLOSCOPE
SPEC.	150mVp-p±10mVp-p

≪SET UP≫

IMAG MODE SELECT: NOR (MENU NO. 2001-00)
VIDEO MODE: COLOUR (MENU NO. 2002-00)
S-VHS REC: ON (MENU NO. 2006-01)
INPUT SELECT SW: LINE

1. Plase the deck in the video insert edit mode.
2. Connect the GND of oscilloscope to TP41010.
3. Connect a scope to TP41009 (HOT), TP41011 (GND) and adjust VR41016 and VR41015 so that the "A" and "B" levels becomes 150mVp-p±10mVp-p as shown in Figure E51.

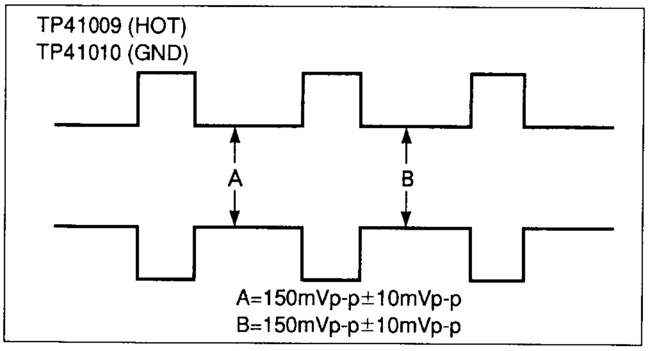


Figure E51

SECTION 5

BLOCK DIAGRAMS

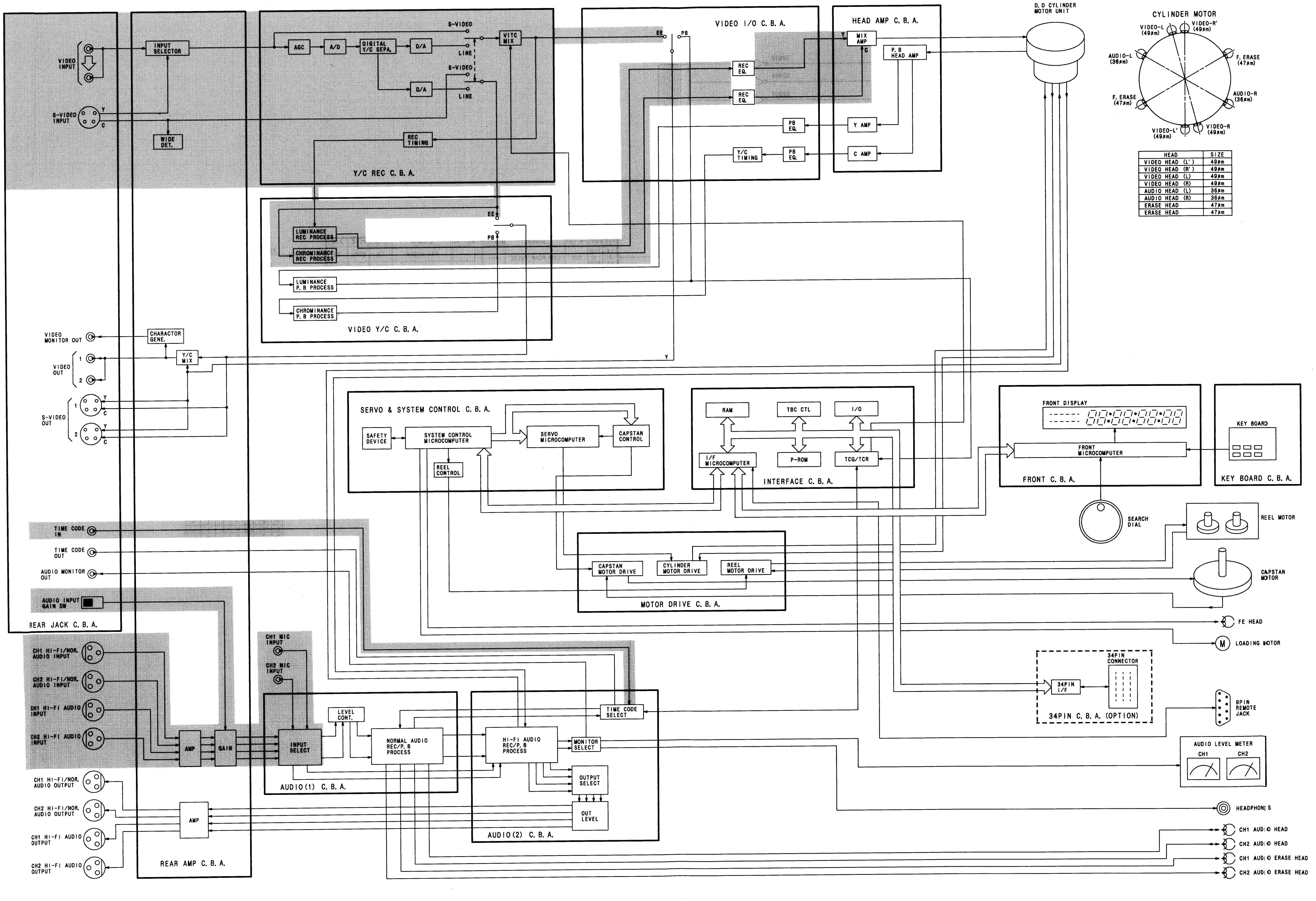
CONTENTS

OVERALL BLOCK DIAGRAM BLK-3
SYSTEM CONTROL BLOCK DIAGRAM BLK-5
SERVO BLOCK DIAGRAM BLK-6
FRONT BLOCK DIAGRAM BLK-4
VIDEO YC BLOCK DIAGRAM BLK-7
YC REC BLOCK DIAGRAM BLK-8
VIDEO I/O BLOCK DIAGRAM BLK-9
Hi-Fi AUDIO BLOCK DIAGRAM BLK-11
NORMAL AUDIO BLOCK DIAGRAM BLK-10
INTERFACE BLOCK DIAGRAM BLK-12

NOTE

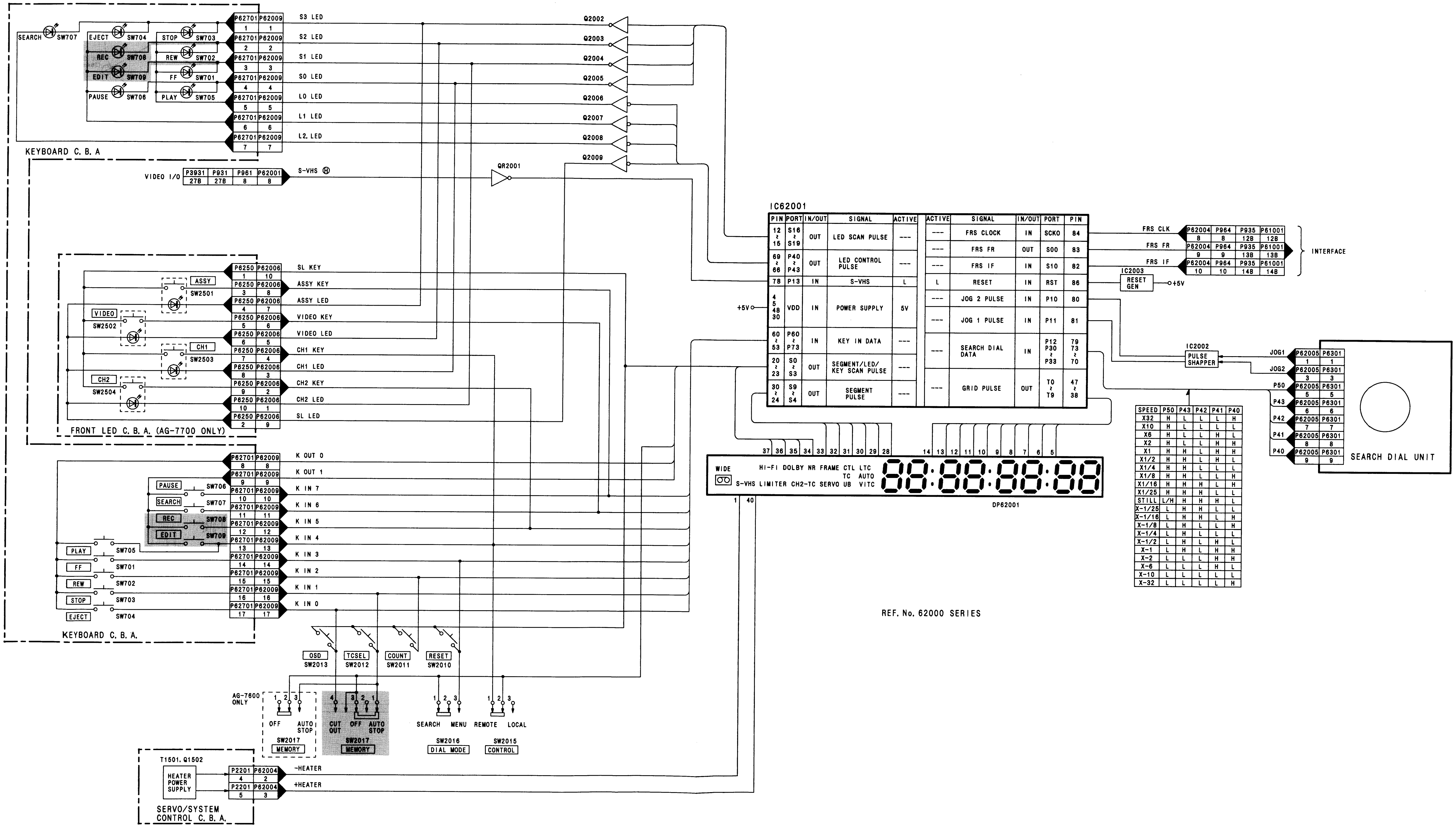
THE AG-7700E ONLY HAVE COMPONENTS AND/OR WIRES IDENTIFIED BY SHADE MARK ON THESES BLOCK DIAGRAMS.

OVERALL BLOCK DIAGRAM


VIDEO INPUT
S-VIDEO INPUT
Y
C
INPUT SELECTOR
WIDE DET.
S-VIDEO
AGC
A/D
DIGITAL Y/C SEPA.
D/A
LINE
S-VIDEO
D/A
LINE
VITC MIX
REC TIMING
Y/C REC C. B. A.
EE
PB
LUMINANCE REC PROCESS
CHROMINANCE REC PROCESS
LUMINANCE P. B PROCESS
CHROMINANCE P. B PROCESS
VIDEO Y/C C. B. A.
VIDEO I/O C. B. A.
EE
PB
REC EQ.
REC EQ.
PB EQ.
Y/C TIMING
PB EQ.
HEAD AMP C. B. A.
Y
MIX AMP
C
P. B HEAD AMP
Y AMP
C AMP
D. D CYLINDER MOTOR UNIT
CYLINDER MOTOR
VIDEO-L (49µm)
VIDEO-R' (49µm)
AUDIO-L (36µm)
F. ERASE (47µm)
F. ERASE (47µm)
AUDIO-R (36µm)
VIDEO-L' (49µm)
VIDEO-R (49µm)
VIDEO MONITOR OUT
CHARACTOR GENE.
VIDEO OUT
1
2
Y/C MIX
S-VIDEO OUT
1
2
Y
C
Y
C
Y
SERVO & SYSTEM CONTROL C. B. A.
SAFETY DEVICE
SYSTEM CONTROL MICROCOMPUTER
SERVO MICROCOMPUTER
CAPSTAN CONTROL
REEL CONTROL
RAM
TBC CTL
I/O
I/F MICROCOMPUTER
P-ROM
TCG/TCR
INTERFACE C. B. A.
FRONT DISPLAY
FRONT MICROCOMPUTER
FRONT C. B. A.
KEY BOARD
KEY BOARD C. B. A.
SEARCH DIAL
REEL MOTOR
CAPSTAN MOTOR
TIME CODE IN
TIME CODE OUT
AUDIO MONITOR OUT
AUDIO INPUT GAIN SW
REAR JACK C. B. A.
CAPSTAN MOTOR DRIVE
CYLINDER MOTOR DRIVE
REEL MOTOR DRIVE
MOTOR DRIVE C. B. A.
FE HEAD
M
LOADING MOTOR
34PIN CONNECTOR
34PIN I/F
34PIN C. B. A. (OPTION)
9PIN REMOTE JACK
CH1 HI-FI/NOR. AUDIO INPUT
CH2 HI-FI/NOR. AUDIO INPUT
CH1 HI-FI AUDIO INPUT
CH2 HI-FI AUDIO INPUT
CH1 MIC INPUT
CH2 MIC INPUT
AMP
GAIN
INPUT SELECT
LEVEL CONT.
NORMAL AUDIO REC/P. B PROCESS
AUDIO(1) C. B. A.
HI-FI AUDIO REC/P. B PROCESS
TIME CODE SELECT
MONITOR SELECT
OUTPUT SELECT
OUT LEVEL
AUDIO(2) C. B. A.
AUDIO LEVEL METER
CH1
CH2
HEADPHONES
CH1 AUDIO HEAD
CH2 AUDIO HEAD
CH1 AUDIO ERASE HEAD
CH2 AUDIO ERASE HEAD
CH1 HI-FI/NOR. AUDIO OUTPUT
CH2 HI-FI/NOR. AUDIO OUTPUT
CH1 HI-FI AUDIO OUTPUT
CH2 HI-FI AUDIO OUTPUT
AMP
REAR AMP C. B. A.

HEAD	SIZE
VIDEO HEAD (L')	49µm
VIDEO HEAD (R')	49µm
VIDEO HEAD (L)	49µm
VIDEO HEAD (R)	49µm
AUDIO HEAD (L)	36µm
AUDIO HEAD (R)	36µm
ERASE HEAD	47µm
ERASE HEAD	47µm

FRONT BLOCK DIAGRAM


SEARCH
SW707
EJECT
SW704
STOP
SW703
REC
SW708
REW
SW702
EDIT
SW709
FF
SW701
PAUSE
SW706
PLAY
SW705
KEYBOARD C. B. A
P62701 P62009 1 1
P62701 P62009 2 2
P62701 P62009 3 3
P62701 P62009 4 4
P62701 P62009 5 5
P62701 P62009 6 6
P62701 P62009 7 7
S3 LED
S2 LED
S1 LED
S0 LED
L0 LED
L1 LED
L2. LED
Q2002
Q2003
Q2004
Q2005
Q2006
Q2007
Q2008
Q2009
VIDEO I/O
P3931 P931 P961 P62001
27B 27B 8 8
S-VHS Ⓗ
QR2001
ASSY
SW2501
VIDEO
SW2502
CH1
SW2503
CH2
SW2504
FRONT LED C. B. A. (AG-7700 ONLY)
P6250 P62006 1 10
P6250 P62006 3 8
P6250 P62006 4 7
P6250 P62006 5 6
P6250 P62006 6 5
P6250 P62006 7 4
P6250 P62006 8 3
P6250 P62006 9 2
P6250 P62006 10 1
P6250 P62006 2 9
SL KEY
ASSY KEY
ASSY LED
VIDEO KEY
VIDEO LED
CH1 KEY
CH1 LED
CH2 KEY
CH2 LED
SL LED
PAUSE
SW706
SEARCH
SW707
REC
SW708
EDIT
SW709
PLAY
SW705
FF
SW701
REW
SW702
STOP
SW703
EJECT
SW704
KEYBOARD C. B. A.
P62701 P62009 8 8
P62701 P62009 9 9
P62701 P62009 10 10
P62701 P62009 11 11
P62701 P62009 12 12
P62701 P62009 13 13
P62701 P62009 14 14
P62701 P62009 15 15
P62701 P62009 16 16
P62701 P62009 17 17
K OUT 0
K OUT 1
K IN 7
K IN 6
K IN 5
K IN 4
K IN 3
K IN 2
K IN 1
K IN 0
OSD
SW2013
TCSEL
SW2012
COUNT
SW2011
RESET
SW2010
AG-7600 ONLY
1 2 3
OFF
AUTO STOP
SW2017
MEMORY
4 3 2 1
CUT OUT
OFF
AUTO STOP
SW2017
MEMORY
1 2 3
SEARCH
MENU
SW2016
DIAL MODE
1 2 3
REMOTE
LOCAL
SW2015
CONTROL
T1501. Q1502
HEATER POWER SUPPLY
SERVO/SYSTEM CONTROL C. B. A.
P2201 P62004 4 2
P2201 P62004 5 3
-HEATER
+HEATER
+5V
37 36 35 34 33 32 31 30 29 28
14 13 12 11 10 9 8 7 6 5
WIDE
HI-FI DOLBY NR FRAME CTL LTC
TC AUTO
S-VHS LIMITER CH2-TC SERVO UB VITC
1 40
DP62001
FRS CLK
FRS FR
FRS IF
P62004 P964 P935 P61001
8 8 12B 12B
P62004 P964 P935 P61001
9 9 13B 13B
P62004 P964 P935 P61001
10 10 14B 14B
INTERFACE
IC2003
RESET GEN
+5V
IC2002
PULSE SHAPPER
JOG1
JOG2
P50
P43
P42
P41
P40
P62005 P6301 1 1
P62005 P6301 3 3
P62005 P6301 5 5
P62005 P6301 6 6
P62005 P6301 7 7
P62005 P6301 8 8
P62005 P6301 9 9
SEARCH DIAL UNIT

IC62001

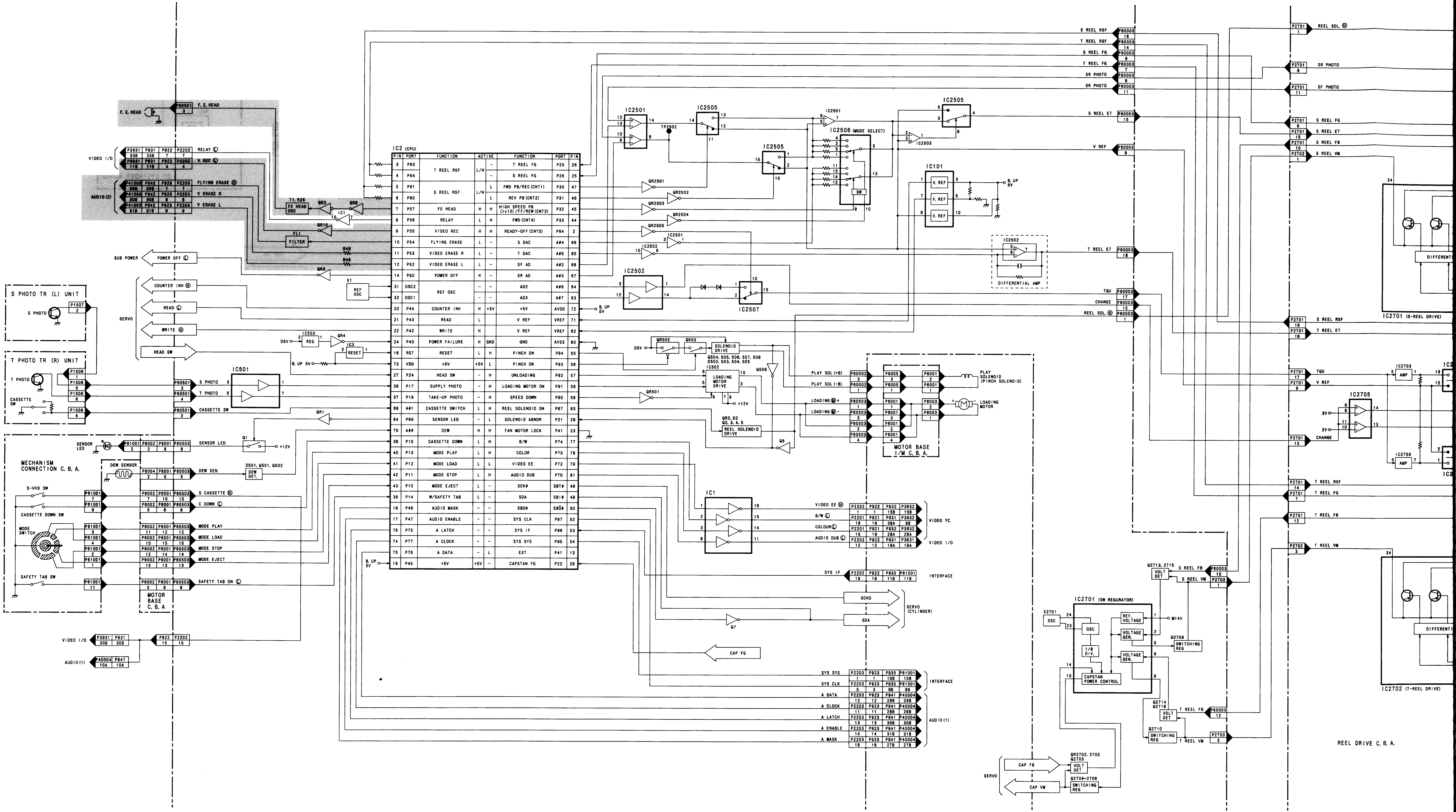
PIN	PORT	IN/OUT	SIGNAL	ACTIVE
12 ≀ 15	S16 ≀ S19	OUT	LED SCAN PULSE	---
69 ≀ 66	P40 ≀ P43	OUT	LED CONTROL PULSE	---
78	P13	IN	S-VHS	L
4 5 48 30	VDD	IN	POWER SUPPLY	5V
60 ≀ 53	P60 ≀ P73	IN	KEY IN DATA	---
20 ≀ 23	S0 ≀ S3	OUT	SEGMENT/LED/ KEY SCAN PULSE	---
30 ≀ 24	S9 ≀ S4	OUT	SEGMENT PULSE	---

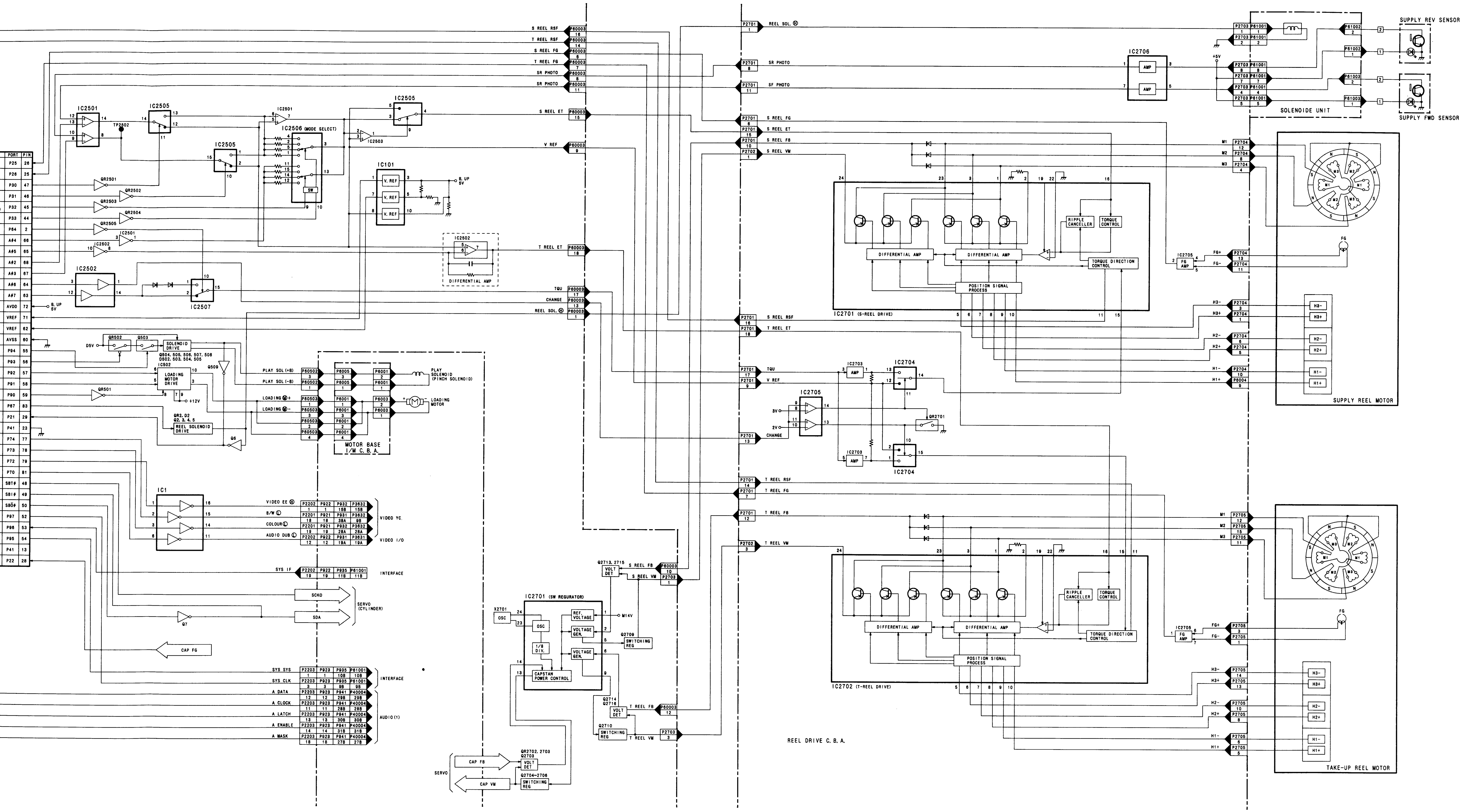
ACTIVE	SIGNAL	IN/OUT	PORT	PIN
---	FRS CLOCK	IN	SCKO	84
---	FRS FR	OUT	S00	83
---	FRS IF	IN	S10	82
L	RESET	IN	RST	86
---	JOG 2 PULSE	IN	P10	80
---	JOG 1 PULSE	IN	P11	81
---	SEARCH DIAL DATA	IN	P12 P30 ≀ P33	79 73 ≀ 70
---	GRID PULSE	OUT	T0 ≀ T9	47 ≀ 38

SPEED	P50	P43	P42	P41	P40
X32	H	L	L	L	H
X10	H	L	L	L	L
X6	H	L	L	H	L
X2	H	L	L	H	H
X1	H	H	L	H	H
X1/2	H	H	L	H	L
X1/4	H	H	L	L	L
X1/8	H	H	L	L	H
X1/16	H	H	H	L	H
X1/25	H	H	H	L	L
STILL	L/H	H	H	H	L
X-1/25	L	H	H	L	L
X-1/16	L	H	H	L	H
X-1/8	L	H	L	L	H
X-1/4	L	H	L	L	L
X-1/2	L	H	L	H	L
X-1	L	H	L	H	H
X-2	L	L	L	H	H
X-6	L	L	L	H	L
X-10	L	L	L	L	L
X-32	L	L	L	L	H

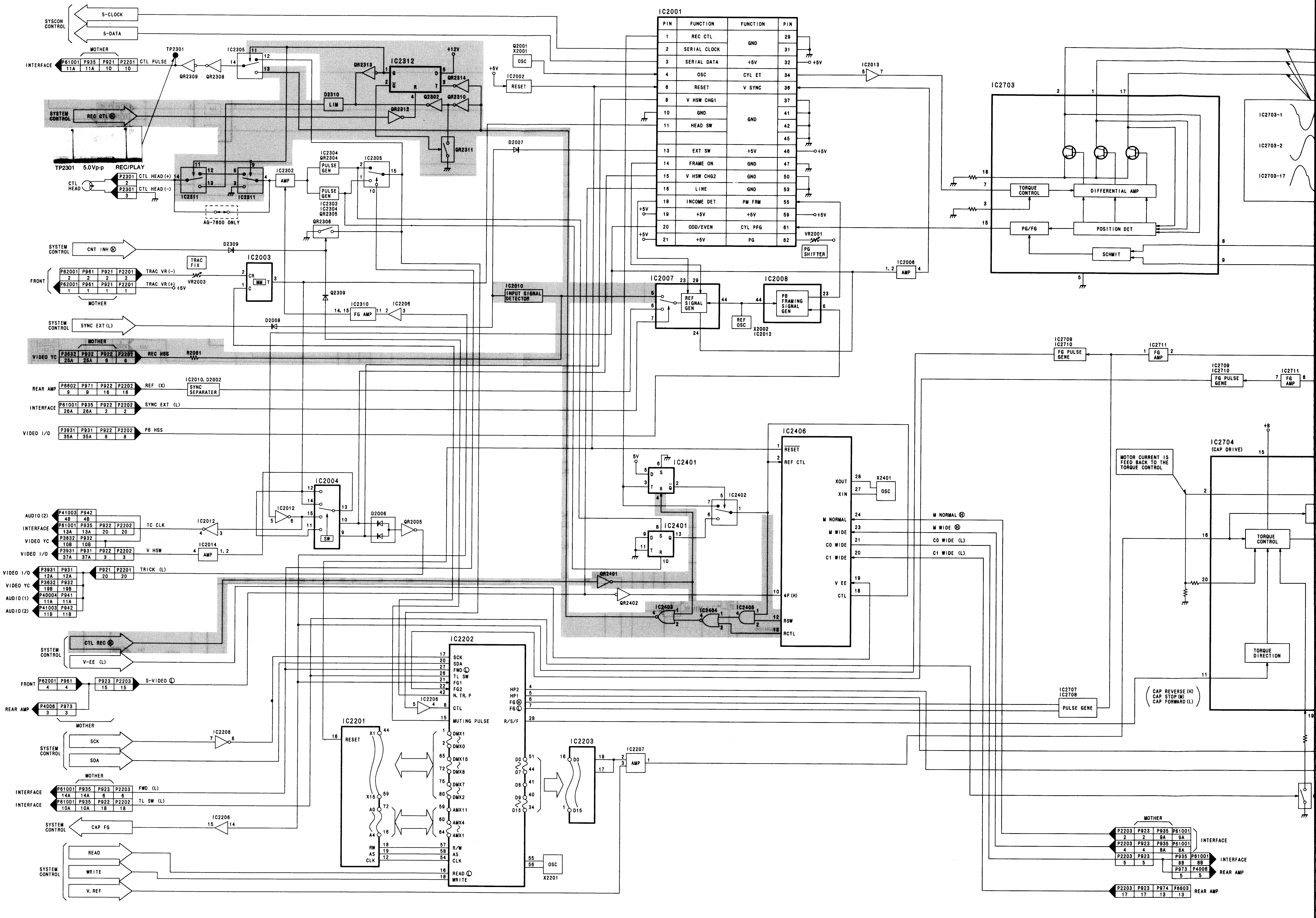
REF. No. 62000 SERIES

SYSTEM CONTROL BLOCK DIAGRAM


F. E. HEAD
VIDEO I/O
AUDIO (2)
RELAY Ⓛ
V. REC Ⓛ
FLYING ERASE Ⓗ
V ERASE R
V ERASE L
SUB POWER
POWER OFF Ⓛ
COUNTER INH Ⓗ
READ Ⓛ
WRITE Ⓗ
HEAD SW
SERVO
S PHOTO TR (L) UNIT
S PHOTO
T PHOTO TR (R) UNIT
T PHOTO
CASSETTE SW
IC501
SENSOR LED
DEW SEN.
DEW SENSOR
DEW DET.
MECHANISM CONNECTION C. B. A.
S-VHS SW
CASSETTE DOWN SW
MODE SWITCH
SAFETY TAB SW
S CASSETTE Ⓗ
C DOWN Ⓛ
MODE PLAY
MODE LOAD
MODE STOP
MODE EJECT
SAFETY TAB ON Ⓛ
MOTOR BASE C. B. A.
IC2 (CPU)
T REEL RSF
S REEL RSF
FE HEAD
RELAY
VIDEO REC
FLYING ERASE
VIDEO ERASE R
VIDEO ERASE L
POWER OFF
REF OSC
COUNTER INH
READ
WRITE
POWER FAILURE
RESET
+5V
HEAD SW
SUPPLY PHOTO
TAKE-UP PHOTO
CASSETTE SWITCH
SENSOR LED
DEW
CASSETTE DOWN
MODE PLAY
MODE LOAD
MODE STOP
MODE EJECT
W/SAFETY TAB
AUDIO MASK
AUDIO ENABLE
A LATCH
A CLOCK
A DATA
T REEL FG
S REEL FG
FWD PB/REC (CNT1)
REV PB (CNT2)
HIGH SPEED PB (×10)/FF/REW (CNT3)
FWD (CNT4)
READY-OFF (CNT5)
S DAC
T DAC
SF AD
SR AD
AD2
AD3
V REF
GND
PINCH ON
UNLOADING
LOADING MOTOR ON
SPEED DOWN
REEL SOLENOID ON
SOLENOID ABNOR
FAN MOTOR LOCK
B/W
COLOR
VIDEO EE
AUDIO DUB
SCK
SDA
SBO
SYS CLK
SYS IF
SYS SYS
EXT
CAPSTAN FG
B. UP 5V
IC2501
IC2505
IC2506 (MODE SELECT)
IC2503
IC101
IC2502
IC2507
DIFFERENTIAL AMP
SOLENOID DRIVE
LOADING MOTOR DRIVE
REEL SOLENOID DRIVE
PLAY SOL (+B)
PLAY SOL (-B)
LOADING Ⓜ+
LOADING Ⓜ-
PLAY SOLENOID (PINCH SOLENOID)
LOADING MOTOR
MOTOR BASE I/M C. B. A.
IC1
VIDEO EE Ⓗ
B/W Ⓛ
COLOUR Ⓛ
AUDIO DUB Ⓛ
VIDEO YC.
INTERFACE
SCKO
SDA
SERVO (CYLINDER)
CAP FG
A DATA
A CLOCK
A LATCH
A ENABLE
A MASK
AUDIO (1)
S REEL RSF
T REEL RSF
S REEL FG
T REEL FG
SR PHOTO
SF PHOTO
S REEL ET
V REF
T REEL ET
TQU
CHANGE
REEL SOL. Ⓗ
S REEL FB
S REEL VM
T REEL FB
T REEL VM
IC2701 (S-REEL DRIVE)
IC2702 (T-REEL DRIVE)
IC2703
IC2705
AMP
DIFFERENTIAL
IC2701 (SW REGURATOR)
X2701
OSC
1/8 DIV.
REF. VOLTAGE
VOLTAGE GEN.
CAPSTAN POWER CONTROL
M14V
Q2709 SWITCHING REG
Q2713, 2715 VOLT DET
Q2714, Q2716 VOLT DET
Q2710 SWITCHING REG
QR2702, 2703 Q2703 VOLT DET
Q2704~2706 SWITCHING REG
CAP FB
CAP VM
REEL DRIVE C. B. A.


IC2501
IC2505
IC2506 (MODE SELECT)
IC2503
IC101
V. REF
B. UP 5V
IC2502
DIFFERENTIAL AMP
IC2507
IC2504
QR2501
QR2502
QR2503
QR2504
QR2505
IC2602
PORT
PIN
S REEL RSF
T REEL RSF
S REEL FG
T REEL FG
SR PHOTO
S REEL ET
V REF
T REEL ET
TQU
CHANGE
REEL SOL. Ⓗ
QR502
Q503
SOLENOID DRIVE
Q504, 505, 506, 507, 508
D502, 503, 504, 505
D5V
IC502
LOADING MOTOR DRIVE
Q509
QR501
+12V
QR2, D2
Q2, 3, 4, 5
REEL SOLENOID DRIVE
Q6
PLAY SOL (+B)
PLAY SOL (-B)
LOADING Ⓜ+
LOADING Ⓜ-
PLAY SOLENOID (PINCH SOLENOID)
LOADING MOTOR
MOTOR BASE
I/M C. B. A.
IC1
VIDEO EE Ⓗ
B/W Ⓛ
COLOUR Ⓛ
AUDIO DUB Ⓛ
VIDEO YC
VIDEO I/O
SYS IF
INTERFACE
SCKO
SDA
SERVO (CYLINDER)
Q7
CAP FG
SYS SYS
SYS CLK
A DATA
A CLOCK
A LATCH
A ENABLE
A MASK
AUDIO (1)
IC2701 (SW REGURATOR)
X2701
OSC
REF. VOLTAGE
VOLTAGE GEN.
1/8 DIV.
CAPSTAN POWER CONTROL
M14V
Q2713, 2715
VOLT DET
S REEL FB
S REEL VM
Q2709
SWITCHING REG
Q2714
Q2716
T REEL FB
Q2710
T REEL VM
QR2702, 2703
Q2703
Q2704~2706
CAP FB
CAP VM
SERVO
REEL SOL. Ⓗ
SF PHOTO
S REEL FG
S REEL ET
S REEL FB
S REEL VM
S REEL RSF
T REEL ET
IC2706
AMP
+5V
SOLENOIDE UNIT
SUPPLY REV SENSOR
SUPPLY FWD SENSOR
M1
M2
M3
RIPPLE CANCELLER
TORQUE CONTROL
DIFFERENTIAL AMP
TORQUE DIRECTION CONTROL
POSITION SIGNAL PROCESS
IC2701 (S-REEL DRIVE)
IC2705
FG AMP
FG+
FG-
FG
H3-
H3+
H2-
H2+
H1-
H1+
SUPPLY REEL MOTOR
IC2703
IC2704
3V
2V
QR2701
T REEL RSF
T REEL FG
T REEL FB
T REEL VM
IC2702 (T-REEL DRIVE)
REEL DRIVE C. B. A.
TAKE-UP REEL MOTOR

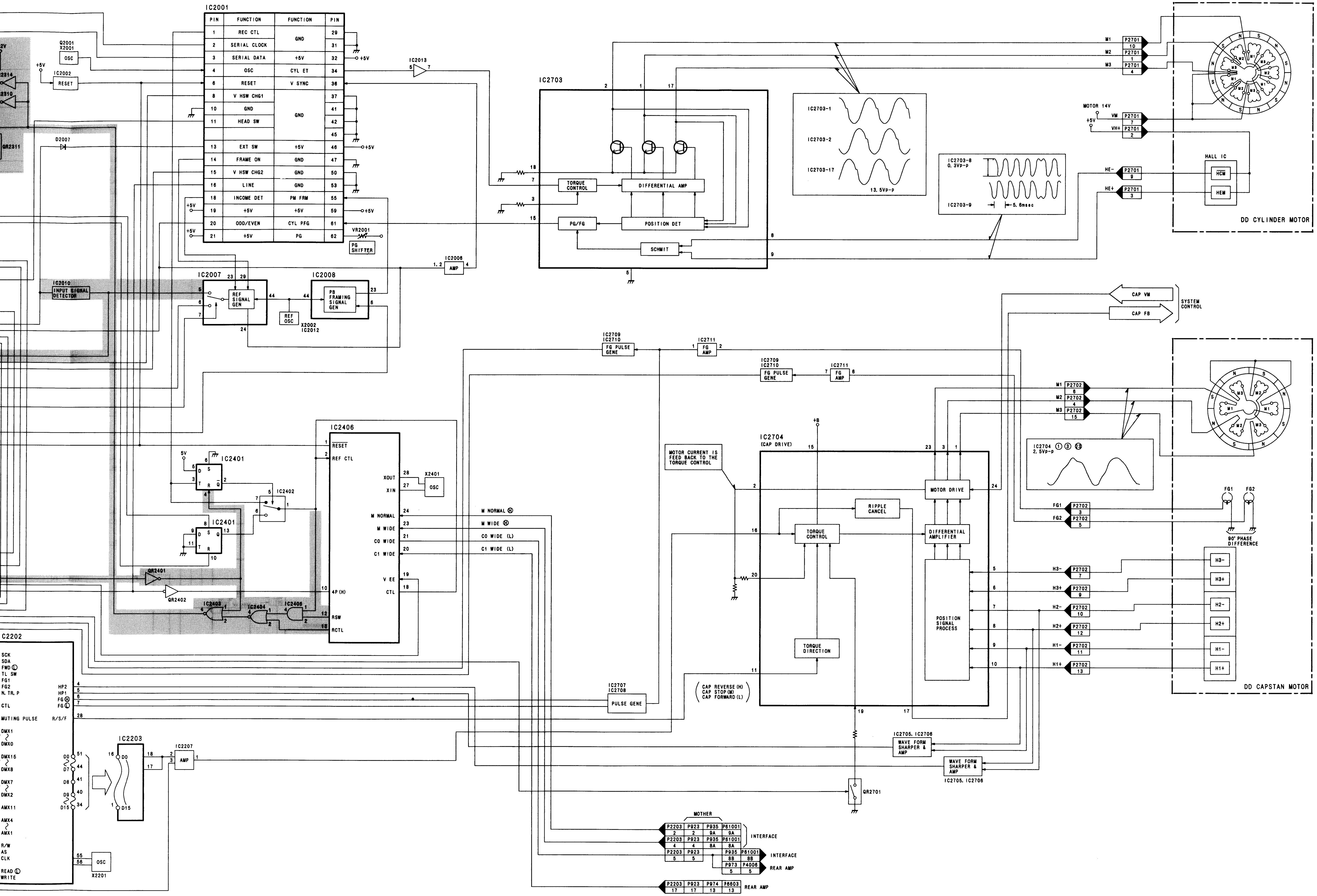
SERVO BLOCK DIAGRAM



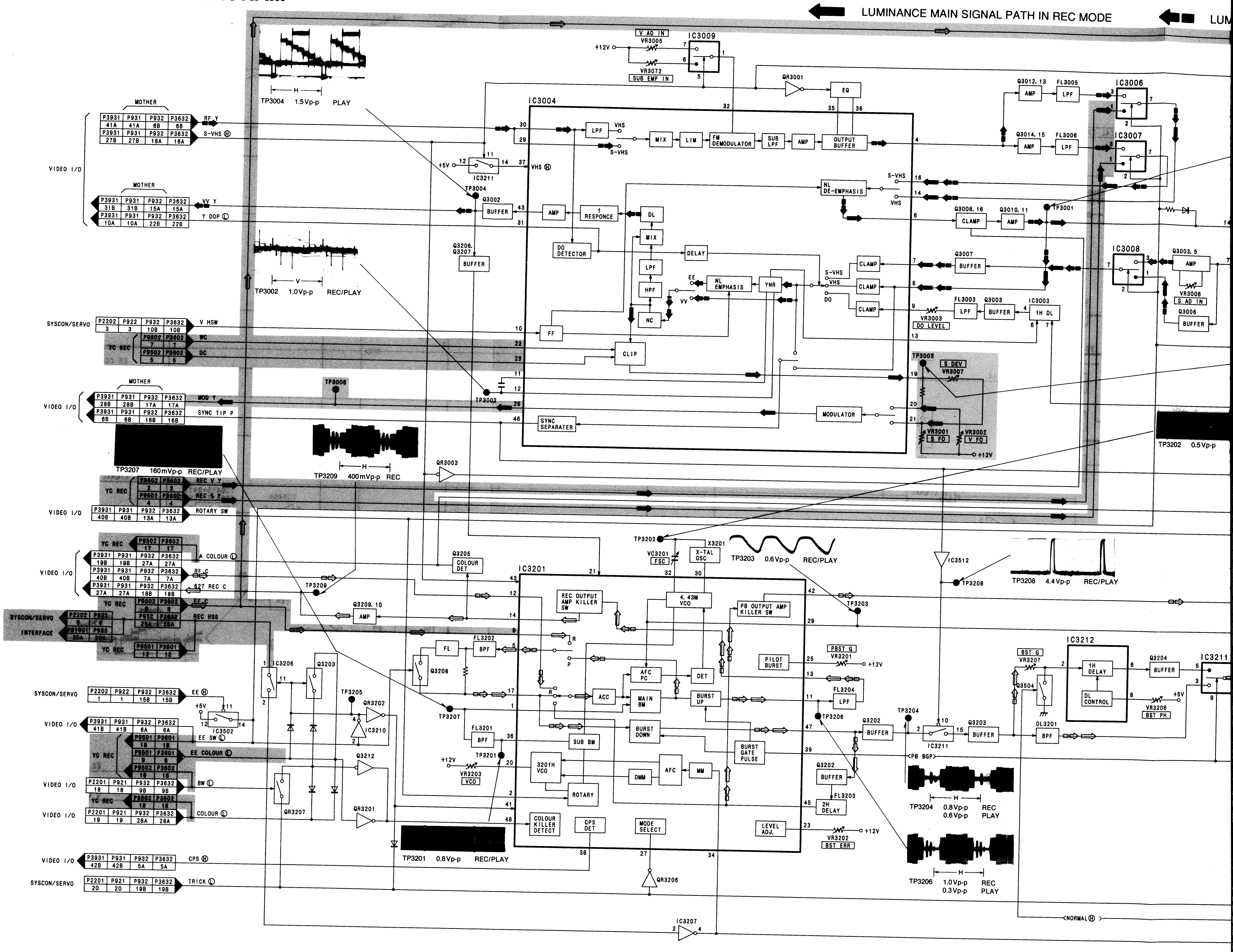
IC2001

PIN	FUNCTION	FUNCTION	PIN
1	REC CTL	GND	29
2	SERIAL CLOCK		31
3	SERIAL DATA	+5V	32
4	OSC	CYL ET	34
6	RESET	V SYNC	36
8	V HSW CHG1	GND	37
10	GND		41
11	HEAD SW		42
			45
13	EXT SW	+5V	46
14	FRAME ON	GND	47
15	V HSW CHG2	GND	50
16	LINE	GND	53
18	INCOME DET	PM FRM	55
19	+5V	+5V	59
20	ODD/EVEN	CYL PFG	61
21	+5V	PG	62

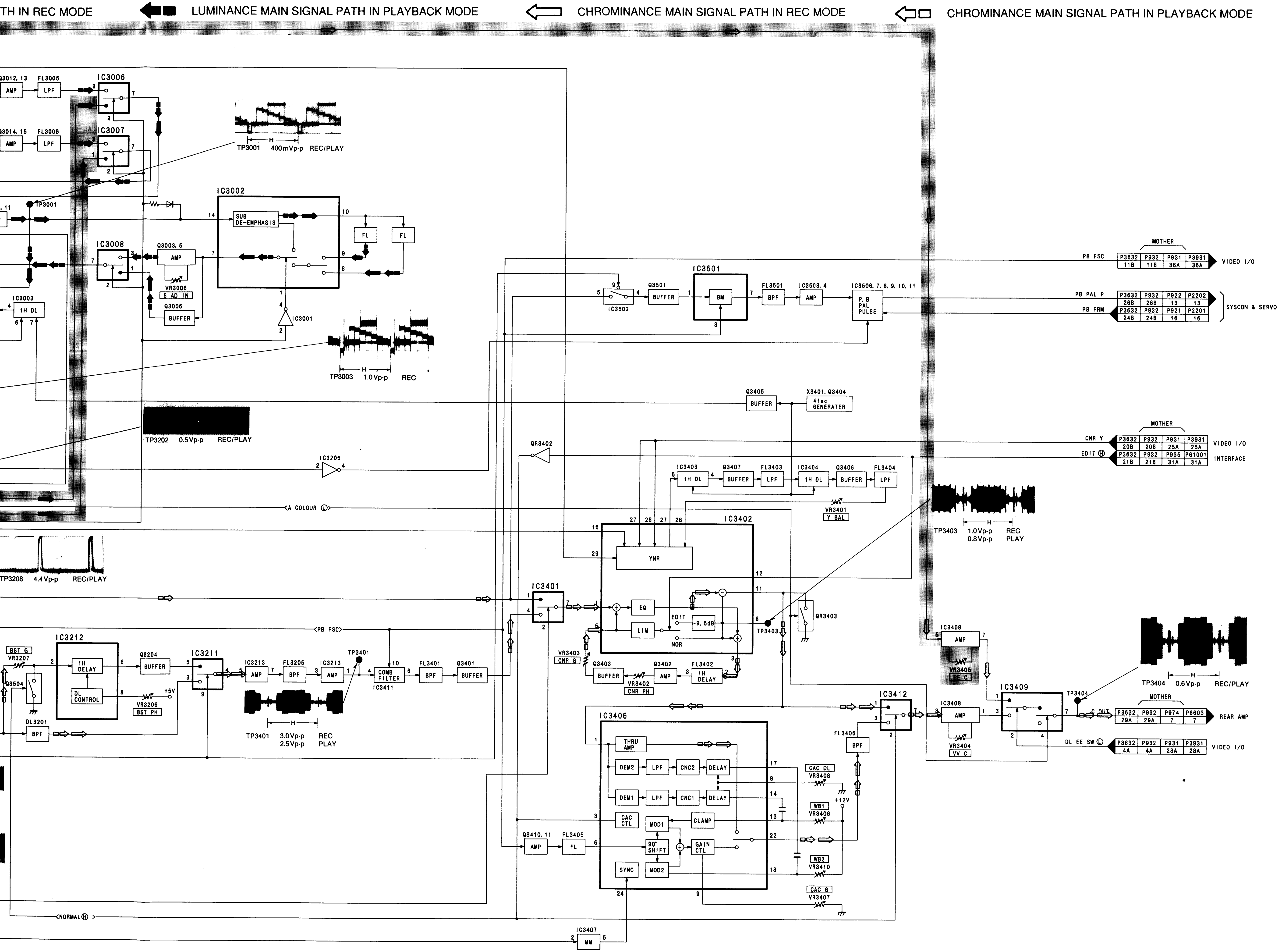
SYSCON CONTROL
S-CLOCK
S-DATA
INTERFACE
MOTHER
P61001 P935 P921 P2201
11A 11A 10 10
CTL PULSE
TP2301
QR2309
QR2308
IC2305
IC2312
+12V
QR2313
QR2314
D2310
LIM
Q2302
QR2310
QR2312
QR2311
SYSTEM CONTROL
REC CTL Ⓗ
TP2301 5.0Vp-p REC/PLAY
CTL HEAD
P2301 2
P2301 3
CTL HEAD (+)
CTL HEAD (-)
IC2311
IC2311
AG-7600 ONLY
IC2302
AMP
IC2304 QR2304
PULSE GEN
PULSE GEN
IC2303 IC2304 QR2305
IC2305
QR2306
Q2001 X2001
OSC
+5V
IC2002
RESET
D2007
SYSTEM CONTROL
CNT INH Ⓗ
D2309
IC2003
TRAC FIX
VR2003
CR
MM
FRONT
P62001 P961 P921 P2201
2 2 2 2
P62001 P961 P921 P2201
1 1 1 1
TRAC VR (-)
TRAC VR (+)
+5V
Q2309
IC2310
FG AMP
IC2206
SYSTEM CONTROL
SYNC EXT (L)
D2008
VIDEO YC
MOTHER
P3632 P932 P922 P2202
25A 25A 6 6
REC HSS
R2061
REAR AMP
P6602 P971 P922 P2202
9 9 16 16
REF (X)
IC2010, D2002
SYNC SEPARATER
INTERFACE
P61001 P935 P922 P2202
26A 26A 2 2
SYNC EXT (L)
VIDEO I/O
P3931 P931 P922 P2202
35A 35A 8 8
PB HSS
IC2010
INPUT SIGNAL DETECTOR
IC2007
REF SIGNAL GEN
IC2008
PB FRAMING SIGNAL GEN
REF OSC
X2002 IC2012
VR2001
PG SHIFTER
IC2006
AMP
IC2013
AUDIO (2)
P41003 P942
4B 4B
INTERFACE
P61001 P935 P922 P2202
13A 13A 20 20
VIDEO YC
P3632 P932
10B 10B
VIDEO I/O
P3931 P931 P922 P2202
37A 37A 3 3
TC CLK
V HSW
IC2012
IC2014
AMP
IC2004
SW
D2006
QR2005
VIDEO I/O
P3931 P931
12A 12A
VIDEO YC
P3632 P932
19B 19B
AUDIO (1)
P40004 P941
11A 11A
AUDIO (2)
P41003 P942
11B 11B
P921 P2201
20 20
TRICK (L)
IC2401
5V
IC2402
IC2401
QR2401
QR2402
IC2403
IC2404
IC2405
IC2406
RESET
REF CTL
XOUT
XIN
X2401
OSC
M NORMAL
M WIDE
C0 WIDE
C1 WIDE
V EE
CTL
4P (H)
RSW
RCTL
SYSTEM CONTROL
CTL REC Ⓗ
V-EE (L)
FRONT
P62001 P961
4 4
P923 P2203
15 15
S-VIDEO Ⓛ
REAR AMP
P4006 P973
3 3
MOTHER
IC2202
SCK
SDA
FWD Ⓛ
TL SW
FG1
FG2
N. TR. P
CTL
MUTING PULSE
HP2
HP1
FG Ⓗ
FG Ⓛ
R/S/F
DMX1
DMX0
DMX15
DMX8
DMX7
DMX2
AMX11
AMX4
AMX1
R/W
AS
CLK
READ Ⓛ
WRITE
D0
D7
D8
D9
D15
OSC
X2201
IC2201
RESET
X1
X15
A0
A4
RW
AS
CLK
IC2203
D0
D15
IC2207
AMP
SYSTEM CONTROL
SCK
SDA
IC2206
MOTHER
INTERFACE
P61001 P935 P923 P2203
14A 14A 6 6
FWD (L)
INTERFACE
P61001 P935 P922 P2202
10A 10A 18 18
TL SW (L)
SYSTEM CONTROL
CAP FG
IC2206
SYSTEM CONTROL
READ
WRITE
V. REF
IC2703
TORQUE CONTROL
DIFFERENTIAL AMP
PG/FG
POSITION DET
SCHMIT
IC2703-1
IC2703-2
IC2703-17
IC2709 IC2710
FG PULSE GENE
IC2711
FG AMP
IC2709 IC2710
FG PULSE GENE
IC2711
FG AMP
+B
IC2704
(CAP DRIVE)
MOTOR CURRENT IS FEED BACK TO THE TORQUE CONTROL
TORQUE CONTROL
TORQUE DIRECTION
IC2707 IC2708
PULSE GENE
CAP REVERSE (H)
CAP STOP (M)
CAP FORWARD (L)
M NORMAL Ⓗ
M WIDE Ⓗ
C0 WIDE (L)
C1 WIDE (L)
MOTHER
P2203 P923 P935 P61001
2 2 9A 9A
P2203 P923 P935 P61001
4 4 8A 8A
INTERFACE
P2203 P923
5 5
P935 P61001
8B 8B
INTERFACE
P973 P4006
5 5
REAR AMP
P2203 P923 P974 P6603
17 17 13 13
REAR AMP


IC2001
PIN
FUNCTION
FUNCTION
PIN
1
REC CTL
GND
29
2
SERIAL CLOCK
31
3
SERIAL DATA
+5V
32
4
OSC
CYL ET
34
6
RESET
V SYNC
36
8
V HSW CHG1
GND
37
10
GND
41
11
HEAD SW
42
45
13
EXT SW
+5V
46
14
FRAME ON
GND
47
15
V HSW CHG2
GND
50
16
LINE
GND
53
18
INCOME DET
PM FRM
55
19
+5V
+5V
59
20
ODD/EVEN
CYL PFG
61
21
+5V
PG
62
Q2001
X2001
OSC
+5V
IC2002
RESET
D2007
QR2311
IC2013
VR2001
PG SHIFTER
IC2006
AMP
IC2007
REF SIGNAL GEN
IC2008
PB FRAMING SIGNAL GEN
REF OSC
X2002
IC2012
IC2010
INPUT SIGNAL DETECTOR
IC2703
TORQUE CONTROL
DIFFERENTIAL AMP
PG/FG
POSITION DET
SCHMIT
IC2703-1
IC2703-2
IC2703-17
13.5Vp-p
IC2703-8
0.3Vp-p
IC2703-9
5.6msec
M1
M2
M3
P2701
MOTOR 14V
+5V
VM
VH+
HE-
HE+
HALL IC
HCM
HEM
DD CYLINDER MOTOR
CAP VM
CAP FB
SYSTEM CONTROL
IC2709
IC2710
FG PULSE GENE
IC2711
FG AMP
P2702
IC2704 ① ③ ㉓
2.5Vp-p
IC2704
(CAP DRIVE)
+B
MOTOR CURRENT IS FEED BACK TO THE TORQUE CONTROL
MOTOR DRIVE
RIPPLE CANCEL
TORQUE CONTROL
DIFFERENTIAL AMPLIFIER
POSITION SIGNAL PROCESS
TORQUE DIRECTION
FG1
FG2
90° PHASE DIFFERENCE
H3-
H3+
H2-
H2+
H1-
H1+
DD CAPSTAN MOTOR
CAP REVERSE (H)
CAP STOP (M)
CAP FORWARD (L)
IC2707
IC2708
PULSE GENE
IC2705, IC2706
WAVE FORM SHARPER & AMP
QR2701
IC2406
RESET
REF CTL
XOUT
XIN
X2401
OSC
M NORMAL
M WIDE
CO WIDE
C1 WIDE
V EE
CTL
4P(H)
RSW
RCTL
M NORMAL Ⓗ
M WIDE Ⓗ
CO WIDE (L)
C1 WIDE (L)
5V
IC2401
IC2402
QR2401
QR2402
IC2403
IC2404
IC2405
C2202
SCK
SDA
FWD Ⓛ
TL SW
FG1
FG2
N. TR. P
CTL
MUTING PULSE
DMX1
DMX0
DMX15
DMX8
DMX7
DMX2
AMX11
AMX4
AMX1
R/W
AS
CLK
READ Ⓛ
WRITE
HP2
HP1
FG Ⓗ
FG Ⓛ
R/S/F
D0
D7
D8
D9
D15
OSC
X2201
IC2203
IC2207
AMP
MOTHER
P2203
P923
P935
P61001
P973
P4006
P974
F6603
INTERFACE
REAR AMP

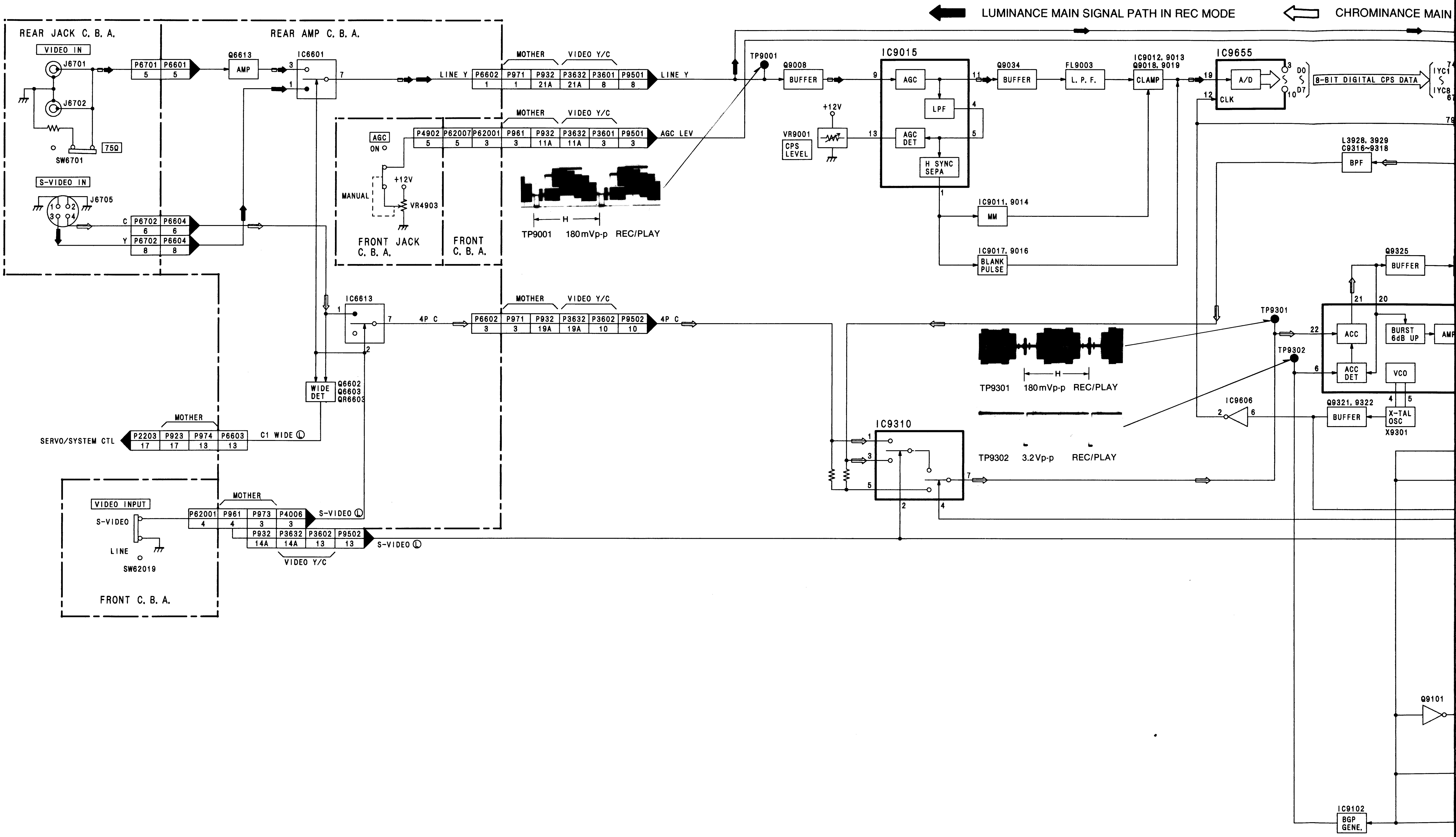
VIDEO YC BLOCK DIAGRAM

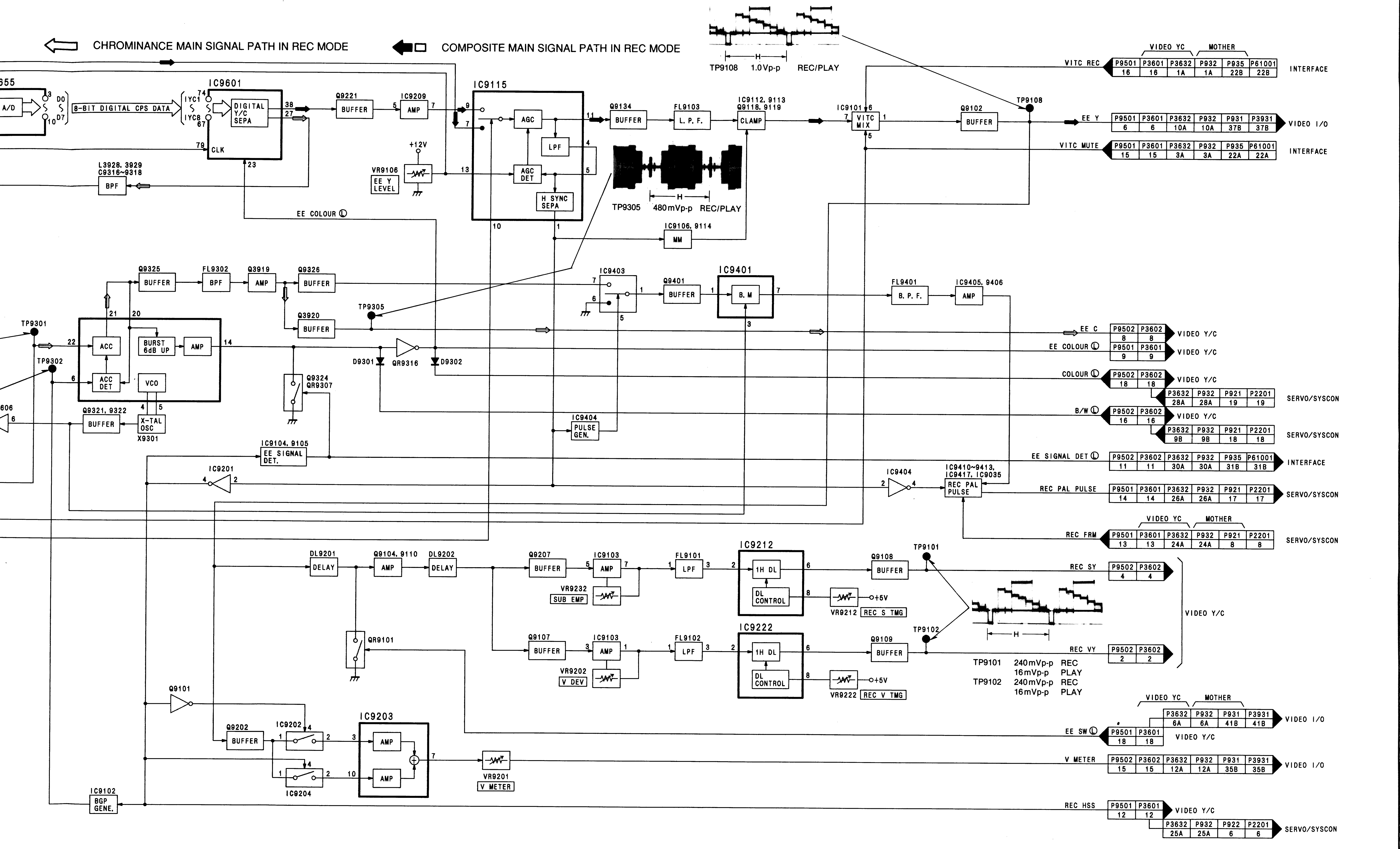


LUMINANCE MAIN SIGNAL PATH IN REC MODE
LUM
TP3004 1.5Vp-p PLAY
TP3002 1.0Vp-p REC/PLAY
TP3207 160mVp-p REC/PLAY
TP3209 400mVp-p REC
TP3201 0.8Vp-p REC/PLAY
TP3202 0.5Vp-p
TP3203 0.6Vp-p REC/PLAY
TP3208 4.4Vp-p REC/PLAY
TP3204 0.8Vp-p 0.6Vp-p REC PLAY
TP3206 1.0Vp-p 0.3Vp-p REC PLAY
VIDEO I/O
SYSCON/SERVO
INTERFACE
YC REC
MOTHER
RF Y
S-VHS Ⓗ
VV Y
Y DOP Ⓛ
V HSW
WC
DC
MOD Y
SYNC TIP P
REC V Y
REC S Y
ROTARY SW
A COLOUR Ⓛ
RF C
627 REC C
EE C
REC HSS
EE Ⓗ
EE SW Ⓛ
EE COLOUR Ⓛ
BW Ⓛ
COLOUR Ⓛ
CPS Ⓗ
TRICK Ⓛ
IC3004
IC3009
IC3211
IC3003
IC3006
IC3007
IC3008
IC3201
IC3212
IC3206
IC3502
IC3210
IC3207
IC3512
V AD IN
VR3005
VR3072
SUB EMP IN
QR3001
EQ
LPF
MIX
LIM
FM DEMODULATOR
SUB LPF
AMP
OUTPUT BUFFER
NL DE-EMPHASIS
BUFFER
f RESPONCE
DL
DO DETECTOR
DELAY
HPF
NC
NL EMPHASIS
YNR
CLAMP
FF
CLIP
MODULATOR
SYNC SEPARATER
1H DL
DO LEVEL
VR3003
S DEV
VR3007
VR3001 S FO
VR3002 V FO
S AD IN
VR3006
Q3002
Q3206, Q3207
Q3007
Q3003, 5
Q3006
Q3008, 16
Q3010, 11
Q3012, 13
Q3014, 15
FL3005
FL3006
FL3003
Q3009
QR3003
Q3205
COLOUR DET
Q3209, 10
X3201
X-TAL OSC
VC3201 FSC
4.43M VCO
REC OUTPUT AMP KILLER SW
PB OUTPUT AMP KILLER SW
PILOT BURST
PBST G
VR3201
FL3202
BPF
FL
Q3208
AFC PC
DET
ACC
MAIN BM
BURST UP
FL3204
BURST DOWN
SUB BM
3201H VCO
ROTARY
DMM
AFC
MM
BURST GATE PULSE
Q3202
2H DELAY
FL3203
LEVEL ADJ.
VR3202 BST ERR
COLOUR KILLER DETECT
CPS DET
MODE SELECT
QR3206
VR3203 VCO
FL3201
Q3203
QR3202
QR3207
QR3201
Q3212
Q3204
Q3203
Q3504
DL3201
BST G
VR3207
1H DELAY
DL CONTROL
VR3206 BST PH
PB BGP
NORMAL Ⓗ
+12V
+5V
S-VHS
VHS
VHS Ⓗ
EE
VV
DO


TH IN REC MODE
LUMINANCE MAIN SIGNAL PATH IN PLAYBACK MODE
CHROMINANCE MAIN SIGNAL PATH IN REC MODE
CHROMINANCE MAIN SIGNAL PATH IN PLAYBACK MODE
IC3006
IC3007
FL3005
FL3006
LPF
AMP
TP3001 400mVp-p REC/PLAY
TP3001
IC3002
SUB DE-EMPHASIS
FL
IC3008
Q3003, 5
AMP
VR3006
S AD IN
Q3006
BUFFER
IC3003
1H DL
IC3001
TP3003 1.0Vp-p REC
TP3202 0.5Vp-p REC/PLAY
IC3205
A COLOUR Ⓛ
TP3208 4.4Vp-p REC/PLAY
PB FSC
IC3212
1H DELAY
DL CONTROL
BST G
VR3207
Q3504
DL3201
BPF
Q3204
BUFFER
VR3206
BST PH
+5V
IC3211
IC3213
AMP
FL3205
BPF
TP3401
COMB FILTER
IC3411
FL3401
BPF
Q3401
BUFFER
TP3401 3.0Vp-p 2.5Vp-p REC PLAY
NORMAL Ⓗ
IC3407
MM
IC3501
BM
IC3502
Q3501
BUFFER
FL3501
BPF
IC3503, 4
AMP
IC3506, 7, 8, 9, 10, 11
P. B PAL PULSE
PB FSC
PB PAL P
PB FRM
MOTHER
VIDEO I/O
SYSCON & SERVO
Q3405
BUFFER
X3401, Q3404
4fsc GENERATOR
QR3402
CNR Y
EDIT Ⓗ
INTERFACE
IC3403
1H DL
Q3407
BUFFER
FL3403
LPF
IC3404
1H DL
Q3406
BUFFER
FL3404
LPF
VR3401
Y BAL
TP3403 1.0Vp-p 0.8Vp-p REC PLAY
IC3402
YNR
EQ
LIM
EDIT
9. 5dB
NOR
TP3403
QR3403
IC3401
VR3403
CNR G
Q3403
BUFFER
Q3402
AMP
FL3402
1H DELAY
VR3402
CNR PH
IC3408
AMP
VR3405
EE C
TP3404 0.6Vp-p REC/PLAY
IC3409
TP3404
C OUT
REAR AMP
DL EE SW Ⓛ
VIDEO I/O
IC3412
IC3408
AMP
VR3404
VV C
FL3406
BPF
IC3406
THRU AMP
DEM2
DEM1
LPF
CNC2
CNC1
DELAY
CAC CTL
MOD1
CLAMP
90° SHIFT
GAIN CTL
SYNC
MOD2
Q3410, 11
AMP
FL3405
FL
CAC DL
VR3408
WB1
VR3406
+12V
WB2
VR3410
CAC G
VR3407
P3632
P932
P931
P3931
P922
P2202
P921
P2201
P935
P61001
P974
P6603

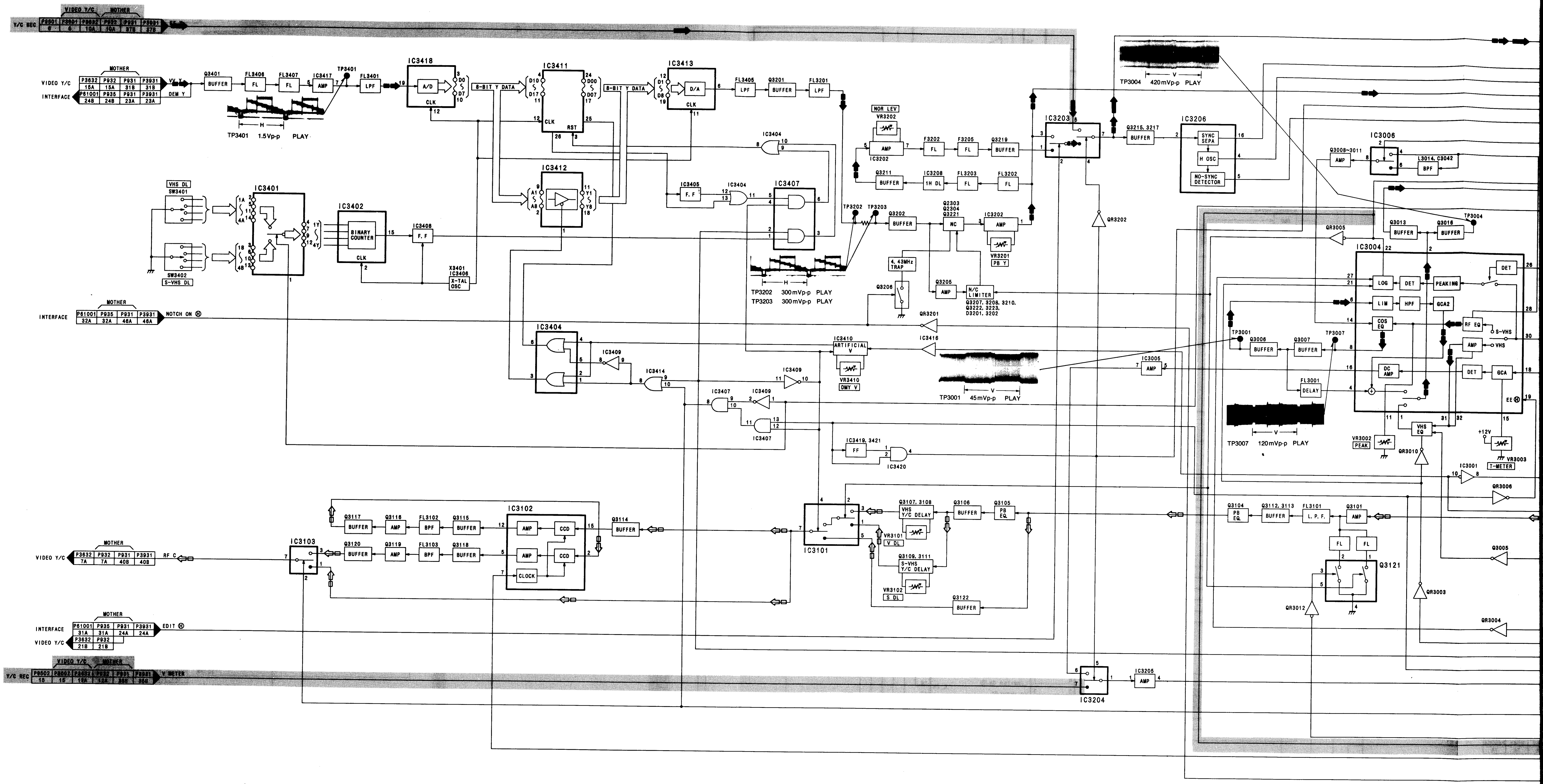
YC REC BLOCK DIAGRAM


LUMINANCE MAIN SIGNAL PATH IN REC MODE
CHROMINANCE MAIN
REAR JACK C. B. A.
REAR AMP C. B. A.
VIDEO IN
J6701
J6702
75Ω
SW6701
S-VIDEO IN
J6705
P6701 P6601 5 5
Q6613
AMP
IC6601
LINE Y
MOTHER
VIDEO Y/C
P6602 P971 P932 P3632 P3601 P9501
1 1 21A 21A 8 8
LINE Y
AGC
ON
MANUAL
+12V
VR4903
P4902 P62007 P62001 P961 P932 P3632 P3601 P9501
5 5 3 3 11A 11A 3 3
AGC LEV
FRONT JACK C. B. A.
FRONT C. B. A.
TP9001 180mVp-p REC/PLAY
H
C P6702 P6604 6 6
Y P6702 P6604 8 8
IC6613
4P C
P6602 P971 P932 P3632 P3602 P9502
3 3 19A 19A 10 10
4P C
WIDE DET
Q6602 Q6603 QR6603
MOTHER
SERVO/SYSTEM CTL
P2203 P923 P974 P6603
17 17 13 13
C1 WIDE Ⓛ
VIDEO INPUT
S-VIDEO
LINE
SW62019
FRONT C. B. A.
P62001 P961 P973 P4006
4 4 3 3
S-VIDEO Ⓛ
P932 P3632 P3602 P9502
14A 14A 13 13
VIDEO Y/C
S-VIDEO Ⓛ
TP9001
Q9008
BUFFER
IC9015
AGC
LPF
AGC DET
H SYNC SEPA
+12V
VR9001
CPS LEVEL
Q9034
BUFFER
FL9003
L. P. F.
IC9012, 9013 Q9018, 9019
CLAMP
IC9655
A/D
CLK
D0 D7
8-BIT DIGITAL CPS DATA
IYC1 IYC8
IC9011, 9014
MM
IC9017, 9016
BLANK PULSE
L3928, 3929 C9316~9318
BPF
Q9325
BUFFER
TP9301
ACC
ACC DET
BURST 6dB UP
AMP
VCO
X-TAL OSC
X9301
TP9302
IC9606
Q9321, 9322
BUFFER
TP9301 180mVp-p REC/PLAY
H
IC9310
TP9302 3.2Vp-p REC/PLAY
Q9101
IC9102
BGP GENE.

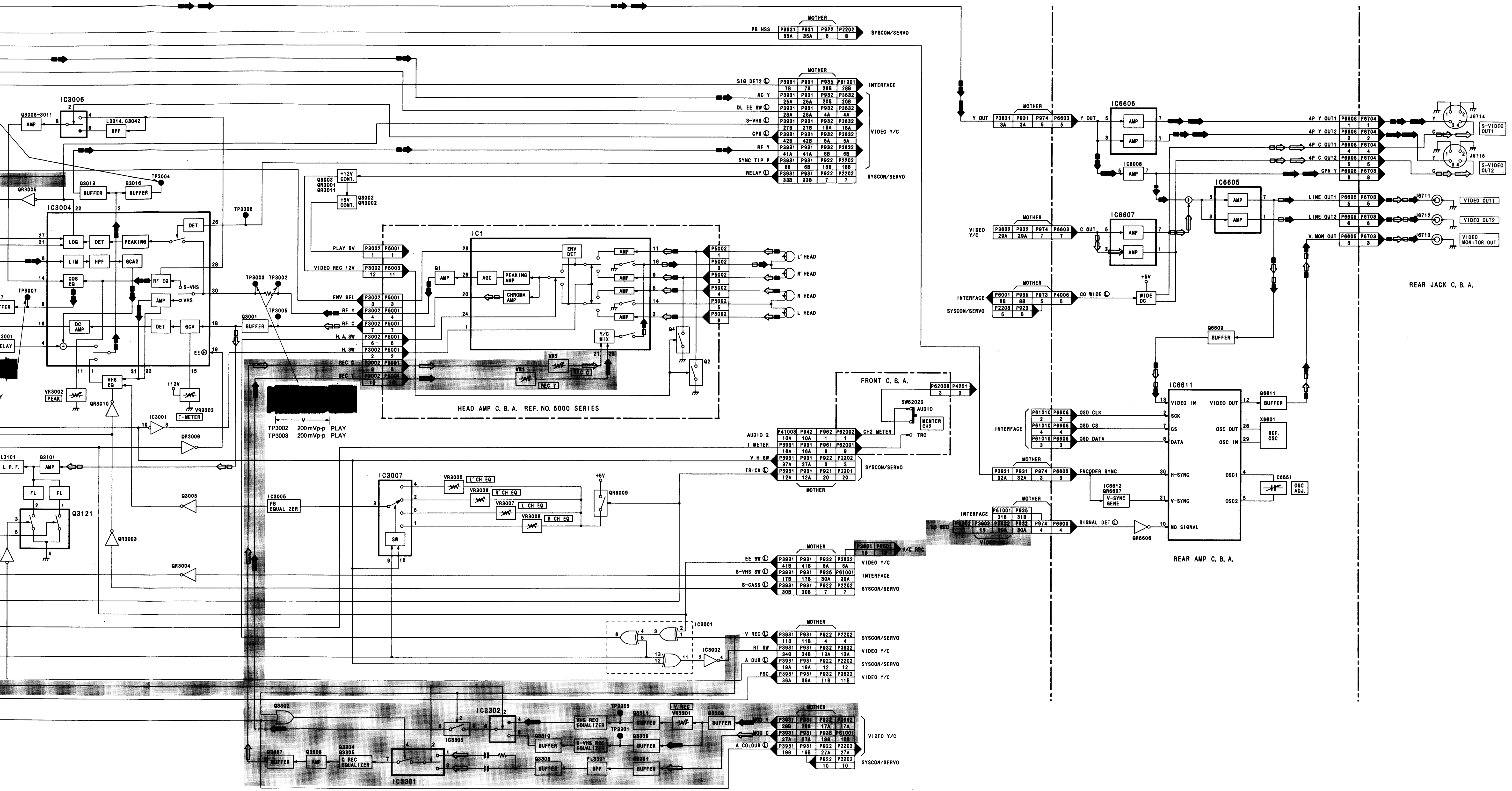


CHROMINANCE MAIN SIGNAL PATH IN REC MODE
COMPOSITE MAIN SIGNAL PATH IN REC MODE
TP9108 1.0Vp-p REC/PLAY
H
655
A/D
D0
D7
8-BIT DIGITAL CPS DATA
IC9601
IYC1
IYC8
74
67
DIGITAL Y/C SEPA
38
27
79
CLK
23
L3928, 3929
C9316~9318
BPF
EE COLOUR Ⓛ
Q9221
BUFFER
IC9209
AMP
+12V
VR9106
EE Y LEVEL
IC9115
AGC
LPF
AGC DET
H SYNC SEPA
9
7
11
4
5
13
10
1
Q9134
BUFFER
FL9103
L. P. F.
IC9112, 9113
Q9118, 9119
CLAMP
TP9305
480mVp-p REC/PLAY
IC9106, 9114
MM
IC9101
VITC MIX
Q9102
BUFFER
TP9108
VITC REC
VIDEO YC
MOTHER
P9501 16 | P3601 16 | P3632 1A | P932 1A | P935 22B | P61001 22B
INTERFACE
EE Y
P9501 6 | P3601 6 | P3632 10A | P932 10A | P931 37B | P3931 37B
VIDEO I/O
VITC MUTE
P9501 15 | P3601 15 | P3632 3A | P932 3A | P935 22A | P61001 22A
INTERFACE
Q9325
BUFFER
FL9302
BPF
Q3919
AMP
Q9326
BUFFER
IC9403
IC9401
Q9401
BUFFER
B. M
FL9401
B. P. F.
IC9405, 9406
AMP
TP9301
TP9302
21
20
22
6
ACC
ACC DET
BURST 6dB UP
AMP
VCO
14
Q3920
BUFFER
TP9305
D9301
QR9316
D9302
EE C
P9502 8 | P3602 8
VIDEO Y/C
EE COLOUR Ⓛ
P9501 9 | P3601 9
VIDEO Y/C
COLOUR Ⓛ
P9502 18 | P3602 18
VIDEO Y/C
P3632 28A | P932 28A | P921 19 | P2201 19
SERVO/SYSCON
B/W Ⓛ
P9502 16 | P3602 16
VIDEO Y/C
P3632 9B | P932 9B | P921 18 | P2201 18
SERVO/SYSCON
606
Q9321, 9322
BUFFER
X-TAL OSC
X9301
Q9324
QR9307
IC9404
PULSE GEN.
IC9104, 9105
EE SIGNAL DET.
EE SIGNAL DET Ⓛ
P9502 11 | P3602 11 | P3632 30A | P932 30A | P935 31B | P61001 31B
INTERFACE
IC9201
IC9404
IC9410~9413,
IC9417, IC9035
REC PAL PULSE
REC PAL PULSE
P9501 14 | P3601 14 | P3632 26A | P932 26A | P921 17 | P2201 17
SERVO/SYSCON
REC FRM
VIDEO YC
MOTHER
P9501 13 | P3601 13 | P3632 24A | P932 24A | P921 8 | P2201 8
SERVO/SYSCON
DL9201
DELAY
Q9104, 9110
AMP
DL9202
DELAY
Q9207
BUFFER
IC9103
AMP
VR9232
SUB EMP
FL9101
LPF
IC9212
1H DL
DL CONTROL
Q9108
BUFFER
TP9101
VR9212
REC S TMG
+5V
REC SY
P9502 4 | P3602 4
VIDEO Y/C
QR9101
Q9107
BUFFER
IC9103
AMP
VR9202
V DEV
FL9102
LPF
IC9222
1H DL
DL CONTROL
Q9109
BUFFER
TP9102
VR9222
REC V TMG
+5V
REC VY
P9502 2 | P3602 2
TP9101 240mVp-p REC
16mVp-p PLAY
TP9102 240mVp-p REC
16mVp-p PLAY
H
Q9101
Q9202
BUFFER
IC9202
IC9204
IC9203
AMP
AMP
VR9201
V METER
VIDEO YC
MOTHER
P3632 6A | P932 6A | P931 41B | P3931 41B
VIDEO I/O
EE SW Ⓛ
P9501 18 | P3601 18
VIDEO Y/C
V METER
P9502 15 | P3602 15 | P3632 12A | P932 12A | P931 35B | P3931 35B
VIDEO I/O
IC9102
BGP GENE.
REC HSS
P9501 12 | P3601 12
VIDEO Y/C
P3632 25A | P932 25A | P922 6 | P2201 6
SERVO/SYSCON

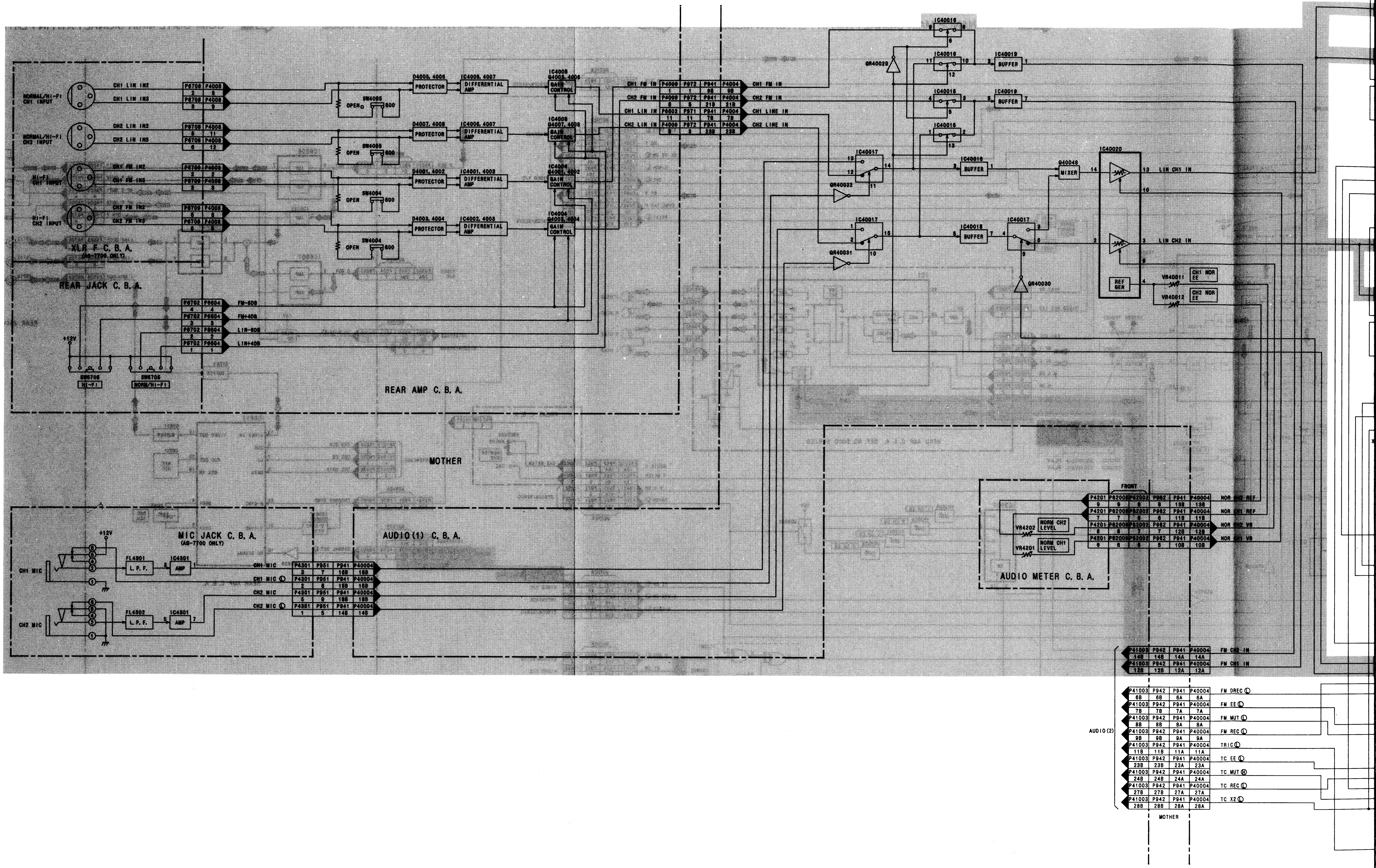
VIDEO I/O BLOCK DIAGRAM

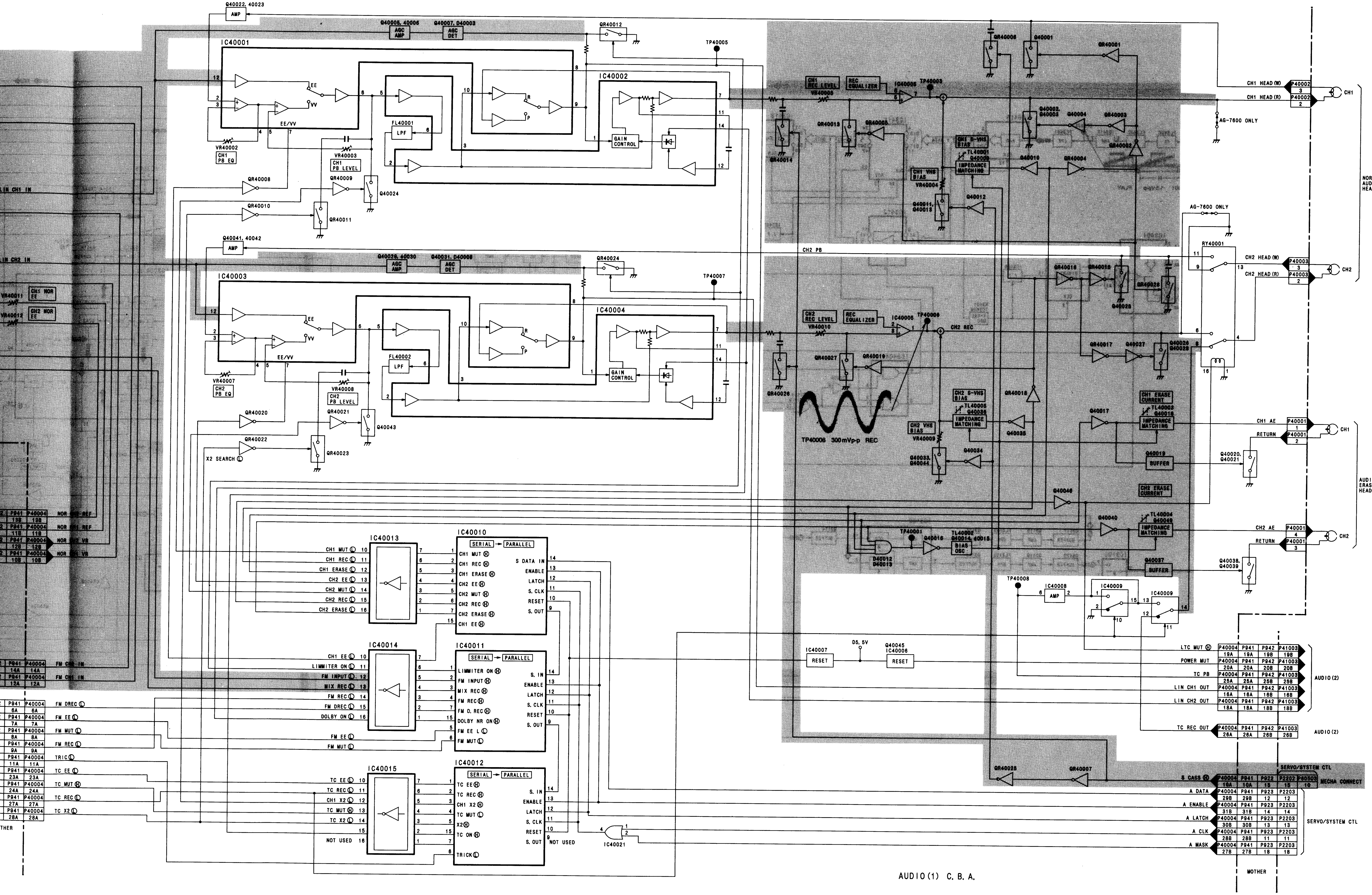

VIDEO Y/C
MOTHER
Y/C REC
VIDEO Y/C
INTERFACE
VY Y
DEM Y
Q3401
BUFFER
FL3406
FL
FL3407
FL
IC3417
AMP
TP3401
FL3401
LPF
IC3418
A/D
CLK
8-BIT Y DATA
IC3411
CLK
RST
IC3413
D/A
CLK
FL3405
LPF
Q3201
BUFFER
FL3201
LPF
TP3401 1.5Vp-p PLAY
VHS DL
SW3401
SW3402
S-VHS DL
IC3401
IC3402
BINARY COUNTER
CLK
IC3408
F. F
X3401
IC3406
X-TAL OSC
IC3412
IC3404
IC3405
F. F
IC3407
NOR LEV
VR3202
AMP
IC3202
F3202
FL
F3205
FL
Q3219
BUFFER
Q3211
BUFFER
IC3208
1H DL
FL3203
FL
FL3202
FL
TP3202
TP3203
Q3202
BUFFER
Q2303
Q2304
Q3221
NC
IC3202
AMP
VR3201
PB Y
4.43MHz TRAP
Q3206
Q3205
AMP
N/C LIMITER
Q3207, 3208, 3210,
Q3222, 3223,
D3201, 3202
TP3202 300mVp-p PLAY
TP3203 300mVp-p PLAY
IC3203
Q3215, 3217
BUFFER
IC3206
SYNC SEPA
H OSC
NO-SYNC DETECTOR
TP3004 420mVp-p PLAY
QR3202
INTERFACE
NOTCH ON Ⓗ
QR3201
IC3416
IC3410
ARTIFICIAL V
VR3410
DMY V
IC3404
IC3409
IC3414
IC3409
IC3407
IC3409
IC3407
IC3419, 3421
FF
IC3420
TP3001 45mVp-p PLAY
IC3006
Q3008~3011
AMP
L3014, C3042
BPF
Q3013
BUFFER
Q3016
BUFFER
TP3004
QR3005
IC3004
LOG
DET
PEAKING
DET
LIM
HPF
GCA2
COS EQ
RF EQ
S-VHS
AMP
VHS
DC AMP
DET
GCA
EE Ⓗ
TP3001
Q3006
BUFFER
Q3007
BUFFER
TP3007
IC3005
AMP
FL3001
DELAY
VR3002
PEAK
VHS EQ
+12V
VR3003
T-METER
TP3007 120mVp-p PLAY
QR3010
IC3001
QR3006
Q3117
BUFFER
Q3116
AMP
FL3102
BPF
Q3115
BUFFER
IC3102
AMP
CCD
AMP
CCD
CLOCK
Q3114
BUFFER
IC3101
Q3107, 3108
VHS Y/C DELAY
VR3101
V DL
Q3109, 3111
S-VHS Y/C DELAY
VR3102
S DL
Q3106
BUFFER
Q3105
PB EQ
Q3122
BUFFER
IC3103
Q3120
BUFFER
Q3119
AMP
FL3103
BPF
Q3118
BUFFER
VIDEO Y/C
RF C
Q3104
PB EQ
Q3112, 3113
BUFFER
FL3101
L. P. F.
Q3101
AMP
FL
FL
Q3121
QR3012
QR3003
Q3005
QR3004
INTERFACE
EDIT Ⓗ
VIDEO Y/C
Y/C REC
Y METER
IC3204
IC3205
AMP

LUMINANCE MAIN SIGNAL PATH IN REC MODE
LUMINANCE MAIN SIGNAL PATH IN PLAYBACK MODE
CHROMINANCE MAIN SIGNAL PATH IN REC MODE
CHROMINANCE MAIN SIGNAL PATH IN PLAYBACK MODE
COMPOSITE MAIN SIGNAL PATH IN REC MODE
COMPOSITE MAIN SIGNAL PATH IN PLAYBACK MODE


IC3006
IC3004
IC3001
IC3007
IC3005 PB EQUALIZER
IC1
HEAD AMP C. B. A. REF. NO. 5000 SERIES
FRONT C. B. A.
IC3301
IC3302
IC3303
IC6606
IC6607
IC6605
IC6608
IC6611
REAR AMP C. B. A.
REAR JACK C. B. A.
MOTHER
SYSCON/SERVO
INTERFACE
VIDEO Y/C
PB HSS
SIG DET2
NC Y
DL EE SW
S-VHS
CPS
RF Y
SYNC TIP P
RELAY
PLAY 5V
VIDEO REC 12V
ENV SEL
RF C
H. A. SW
H. SW
REC C
REC Y
AUDIO 2
T METER
V H SW
TRICK
EE SW
S-VHS SW
S-CASS
V REC
RT SW
A DUB
FSC
MOD Y
MOD C
A COLOUR
Y OUT
C OUT
CO WIDE
ENCODER SYNC
SIGNAL DET
OSD CLK
OSD CS
OSD DATA
YC REC
VIDEO YC
Y/C REC
L' HEAD
R' HEAD
R HEAD
L HEAD
4P Y OUT1
4P Y OUT2
4P C OUT1
4P C OUT2
CPN Y
LINE OUT1
LINE OUT2
V. MON OUT
S-VIDEO OUT1
S-VIDEO OUT2
VIDEO OUT1
VIDEO OUT2
VIDEO MONITOR OUT
J6714
J6715
J6711
J6712
J6713
TP3002 200mVp-p PLAY
TP3003 200mVp-p PLAY
TP3004
TP3005
TP3006
TP3301
TP3302
VR3002 PEAK
VR3003 T-METER
VR3005 L' CH EQ
VR3006 R' CH EQ
VR3007 L CH EQ
VR3008 R CH EQ
VR3301 V. REC
VR1 REC Y
VR2 REC C
SW62020 AUDIO
METER CH2
CH2 METER
TRC
X6601 REF. OSC
C6551 OSC ADJ.
VHS REC EQUALIZER
S-VHS REC EQUALIZER
C REC EQUALIZER
FL3301 BPF
BUFFER
AMP
LOG
DET
PEAKING
LIM
HPF
GCA2
COS EQ
RF EQ
DC AMP
GCA
VHS EQ
AGC
PEAKING AMP
CHROMA AMP
ENV DET
Y/C MIX
WIDE DC
V-SYNC GENE
VIDEO IN
VIDEO OUT
SCK
CS
DATA
H-SYNC
V-SYNC
NO SIGNAL
OSC OUT
OSC IN
OSC1
OSC2

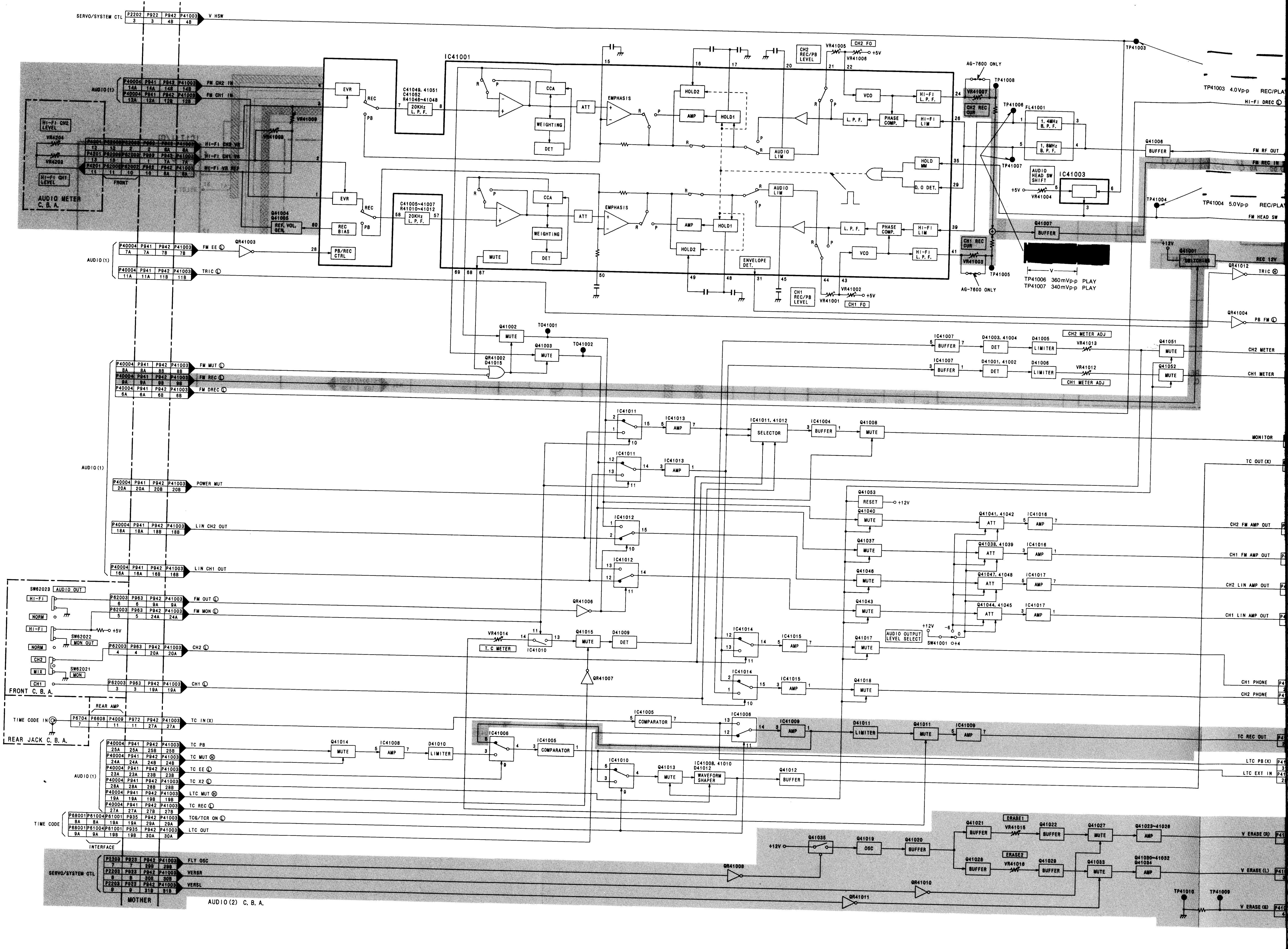
NORMAL AUDIO BLOCK DIAGRAM


NORMAL/HI-FI CH1 INPUT
NORMAL/HI-FI CH2 INPUT
HI-FI CH1 INPUT
HI-FI CH2 INPUT
CH1 LIN IN2
CH1 LIN IN3
CH2 LIN IN2
CH2 LIN IN3
CH1 FM IN2
CH1 FM IN3
CH2 FM IN2
CH2 FM IN3
XLR F C. B. A.
(AG-7700 ONLY)
REAR JACK C. B. A.
SW4005
SW4006
SW4004
OPEN
600
D4005, 4006
D4007, 4008
D4001, 4002
D4003, 4004
PROTECTOR
IC4005, 4007
IC4006, 4007
IC4001, 4003
IC4002, 4003
DIFFERENTIAL AMP
GAIN CONTROL
FM-6DB
FM+4DB
LIN-6DB
LIN+4DB
+12V
SW6706
HI-FI
SW6705
NORM/HI-FI
REAR AMP C. B. A.
MOTHER
CH1 FM IN
CH2 FM IN
CH1 LINE IN
CH2 LINE IN
IC40016
IC40017
IC40018
IC40019
BUFFER
QR40029
QR40032
QR40031
QR40030
Q40048
MIXER
IC40020
REF GEN
LIN CH1 IN
LIN CH2 IN
VR40011
VR40012
CH1 NOR EE
CH2 NOR EE
MIC JACK C. B. A.
(AG-7700 ONLY)
CH1 MIC
CH2 MIC
FL4301
FL4302
L. P. F.
IC4301
AMP
AUDIO (1) C. B. A.
FRONT
VR4202
NORM CH2 LEVEL
VR4201
NORM CH1 LEVEL
AUDIO METER C. B. A.
NOR CH2 REF
NOR CH1 REF
NOR CH2 VR
NOR CH1 VR
FM CH2 IN
FM CH1 IN
AUDIO (2)
FM DREC
FM EE
FM MUT
FM REC
TRIC
TC EE
TC MUT
TC REC
TC X2
MOTHER

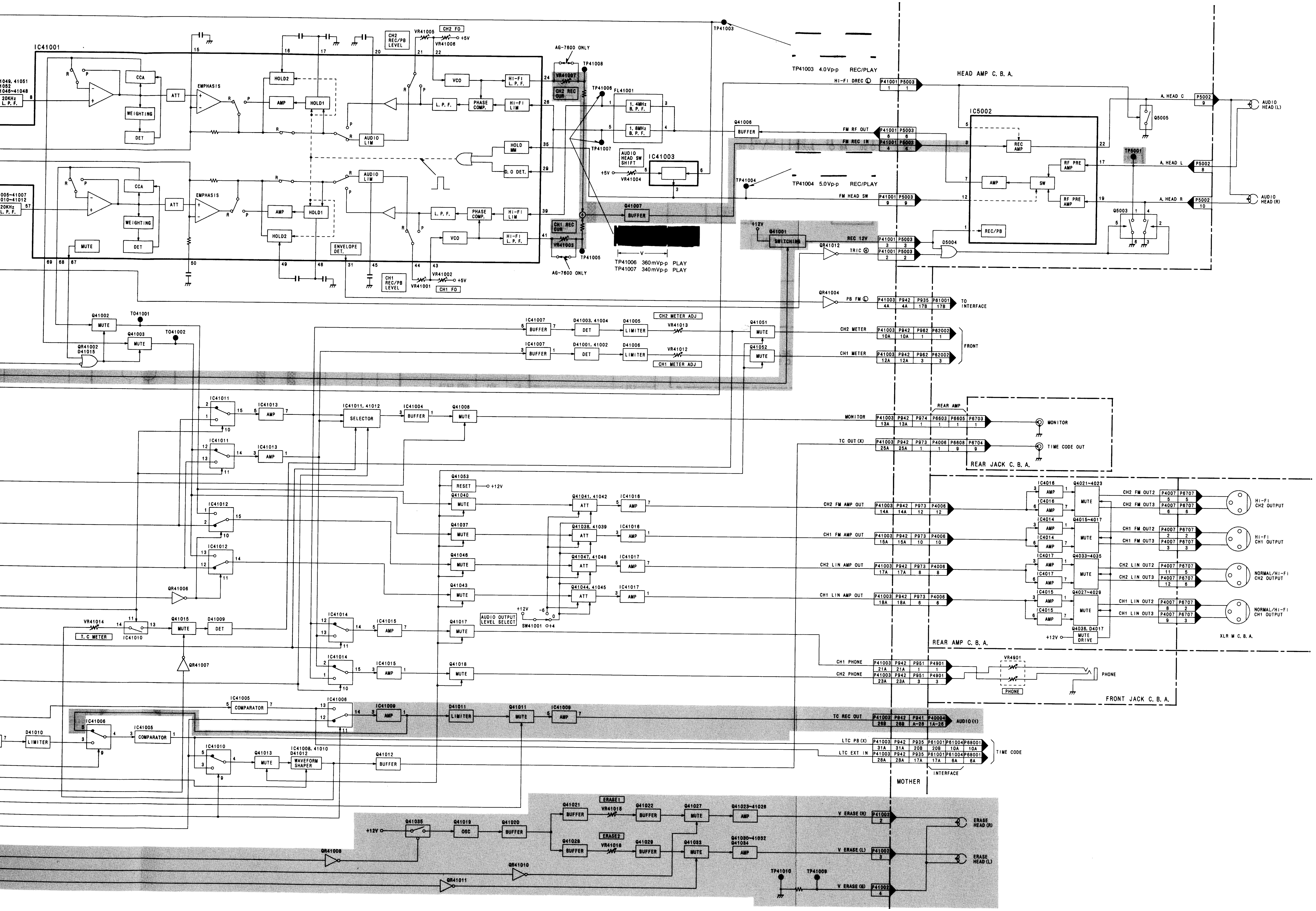

IC40001
IC40002
IC40003
IC40004
IC40005
IC40006
IC40007
IC40008
IC40009
IC40010
IC40011
IC40012
IC40013
IC40014
IC40015
IC40021
AGC AMP
AGC DET
AMP
LPF
GAIN CONTROL
EE/VV
CH1 PB EQ
CH1 PB LEVEL
CH2 PB EQ
CH2 PB LEVEL
CH1 REC LEVEL
REC EQUALIZER
CH2 REC LEVEL
CH1 S-VHS BIAS
CH1 VHS BIAS
CH2 S-VHS BIAS
CH2 VHS BIAS
IMPEDANCE MATCHING
CH1 ERASE CURRENT
CH2 ERASE CURRENT
BUFFER
BIAS OSC
RESET
TP40005
TP40007
TP40003
TP40006
TP40001
TP40008
TP40006 300mVp-p REC
CH2 PB
CH2 REC
X2 SEARCH Ⓛ
CH1 HEAD (W)
CH1 HEAD (R)
CH2 HEAD (W)
CH2 HEAD (R)
AG-7600 ONLY
RY40001
NORMAL AUDIO HEAD
CH1 AE
CH2 AE
RETURN
AUDIO ERASE HEAD
CH1
CH2
SERIAL → PARALLEL
S DATA IN
ENABLE
LATCH
S. CLK
RESET
S. OUT
S. IN
NOT USED
CH1 MUT Ⓛ
CH1 REC Ⓛ
CH1 ERASE Ⓛ
CH2 EE Ⓛ
CH2 MUT Ⓛ
CH2 REC Ⓛ
CH2 ERASE Ⓛ
CH1 EE Ⓛ
LIMMITER ON Ⓛ
FM INPUT Ⓛ
MIX REC Ⓛ
FM REC Ⓛ
FM DREC Ⓛ
DOLBY ON Ⓛ
FM EE Ⓛ
FM MUT Ⓛ
TC EE Ⓛ
TC REC Ⓛ
CH1 X2 Ⓛ
TC MUT Ⓗ
TC X2 Ⓛ
TRICK Ⓛ
TRIC Ⓛ
DOLBY NR ON Ⓗ
TC ON Ⓗ
D5. 5V
LTC MUT Ⓗ
POWER MUT
TC PB
LIN CH1 OUT
LIN CH2 OUT
TC REC OUT
AUDIO (2)
S CASS Ⓗ
A DATA
A ENABLE
A LATCH
A CLK
A MASK
SERVO/SYSTEM CTL
MECHA CONNECT
MOTHER
LIN CH1 IN
LIN CH2 IN
CH1 NOR EE
CH2 NOR EE
NOR CH2 REF
NOR CH1 REF
NOR CH2 VR
NOR CH1 VR
FM CH2 IN
FM CH1 IN
P40004
P941
P942
P922
P923
P41003
P2202
P2203
P60509
P40001
P40002
P40003

AUDIO(1) C. B. A.

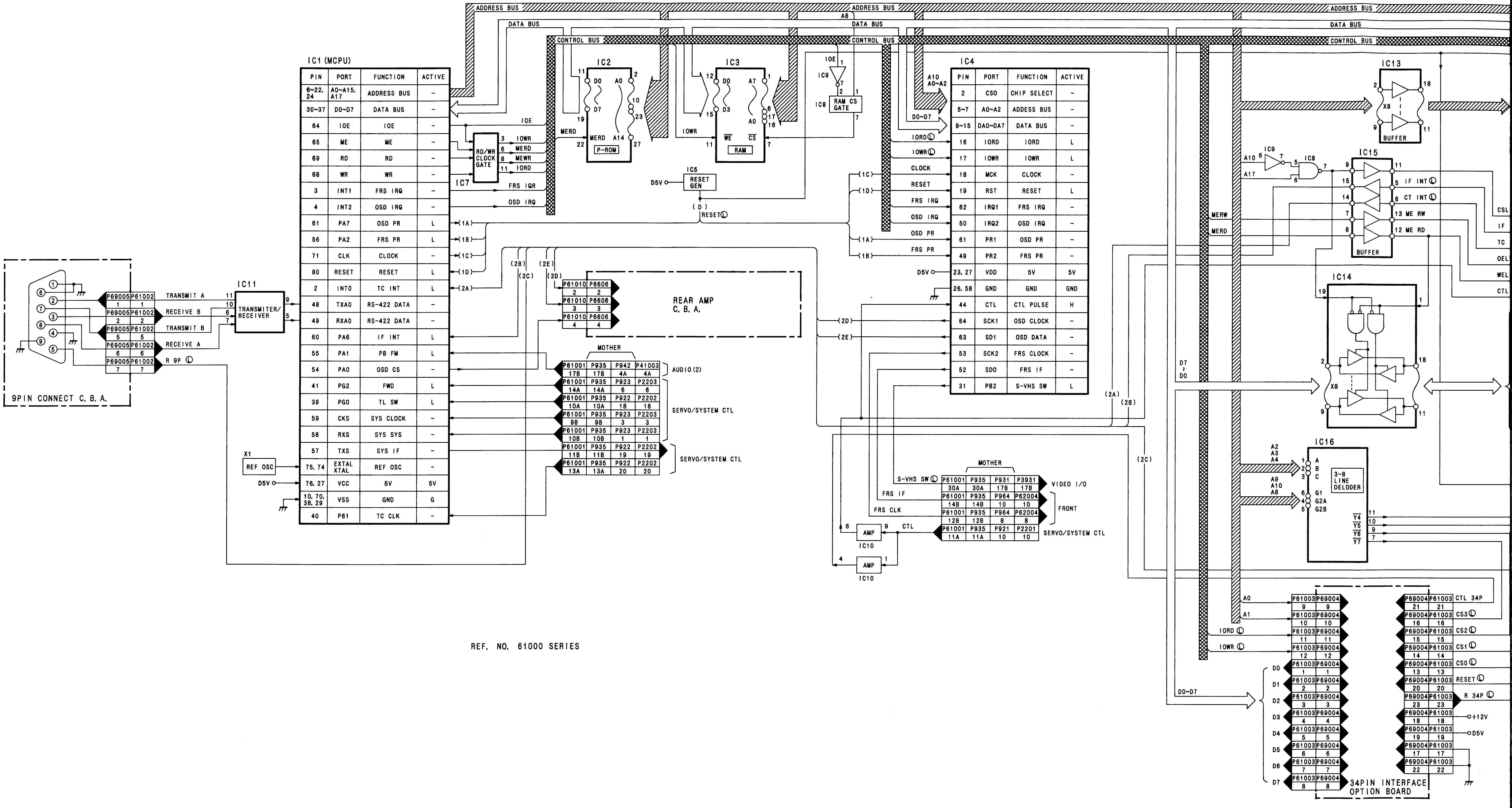
HI-FI AUDIO BLOCK DIAGRAM



SERVO/SYSTEM CTL
V HSW
IC41001
AUDIO(1)
FM CH2 IN
FM CH1 IN
Hi-Fi CH2 LEVEL
Hi-Fi CH1 LEVEL
VR4204
VR4203
Hi-Fi CH2 VR
Hi-Fi CH1 VR
Hi-Fi VR REF
FRONT
AUDIO METER C. B. A.
VR41009
VR41008
Q41004
Q41005
REF. VOL. GEN.
EVR
REC
PB
REC BIAS
PB/REC CTRL
C41049, 41051
C41052
R41046~41048
20KHz L. P. F.
C41005~41007
R41010~41012
CCA
WEIGHTING
DET
ATT
EMPHASIS
MUTE
HOLD1
HOLD2
AMP
AUDIO LIM
VCO
PHASE COMP.
L. P. F.
Hi-Fi L. P. F.
Hi-Fi LIM
HOLD MM
D. O DET.
ENVELOPE DET.
CH2 REC/PB LEVEL
CH1 REC/PB LEVEL
VR41005
VR41006
CH2 FO
+5V
VR41001
VR41002
CH1 FO
AG-7600 ONLY
VR41007
VR41003
CH2 REC CUR
CH1 REC CUR
TP41008
TP41006
TP41007
TP41005
TP41003
FL41001
1.4MHz B. P. F.
1.8MHz B. P. F.
Q41006
BUFFER
FM RF OUT
AUDIO HEAD SW SHIFT
VR41004
IC41003
Q41007
TP41003 4.0Vp-p REC/PLAY
Hi-Fi DREC
FM REC IN
TP41004
TP41004 5.0Vp-p REC/PLAY
FM HEAD SW
TP41006 360mVp-p PLAY
TP41007 340mVp-p PLAY
+12V
Q41001
SWITCHING
REC 12V
QR41012
TRIC
QR41004
PB FM
FM EE
QR41003
TRIC
Q41002
TQ41001
Q41003
TQ41002
QR41002
D41015
FM MUT
FM REC
FM DREC
IC41007
BUFFER
D41003, 41004
D41001, 41002
D41005
D41006
LIMITER
CH2 METER ADJ
CH1 METER ADJ
VR41013
VR41012
Q41051
Q41052
CH2 METER
CH1 METER
IC41011
IC41013
AMP
IC41011, 41012
SELECTOR
IC41004
Q41008
MONITOR
TC OUT (X)
POWER MUT
LIN CH2 OUT
LIN CH1 OUT
IC41012
Q41053
RESET
Q41040
Q41037
Q41046
Q41043
Q41017
Q41018
Q41041, 41042
Q41038, 41039
Q41047, 41048
Q41044, 41045
ATT
IC41016
IC41017
CH2 FM AMP OUT
CH1 FM AMP OUT
CH2 LIN AMP OUT
CH1 LIN AMP OUT
AUDIO OUTPUT LEVEL SELECT
SW41001
+12V -6 0 +4
IC41014
IC41015
CH1 PHONE
CH2 PHONE
SW62023
AUDIO OUT
Hi-Fi
NORM
SW62022
MON OUT
SW62021
MON
CH2
MIX
CH1
FM OUT
FM MON
QR41006
VR41014
T.C METER
IC41010
Q41015
D41009
QR41007
FRONT C. B. A.
TIME CODE IN
REAR AMP
REAR JACK C. B. A.
TC IN (X)
IC41005
COMPARATOR
IC41006
IC41009
D41011
Q41011
TC REC OUT
TC PB
TC MUT
TC EE
TC X2
LTC MUT
TC REC
TCG/TCR ON
LTC OUT
Q41014
IC41008
D41010
Q41013
IC41008, 41010
D41012
WAVEFORM SHAPER
Q41012
LTC PB (X)
LTC EXT IN
TIME CODE
INTERFACE
FLY OSC
VERSR
VERSL
MOTHER
AUDIO(2) C. B. A.
QR41008
QR41010
QR41011
Q41035
Q41019
OSC
Q41020
Q41021
Q41022
Q41027
Q41023~41026
ERASE1
VR41015
Q41028
Q41029
Q41033
Q41030~41032
Q41034
ERASE2
VR41016
V ERASE (R)
V ERASE (L)
V ERASE (B)
TP41010
TP41009
P2202 P922 P942 P41003
P40004 P941 P942 P41003
P62003 P963 P942 P41003
P6704 P6608 P4009 P972 P942 P41003
P68001 P61004 P61001 P935 P942 P41003
P2203 P923 P942 P41003


IC41001
20KHz L.P.F.
CCA
ATT
EMPHASIS
WEIGHTING
DET
HOLD2
HOLD1
AMP
AUDIO LIM
VCO
PHASE COMP.
L.P.F.
HI-FI L.P.F.
HI-FI LIM
HOLD MM
D.O DET.
ENVELOPE DET.
MUTE
CH2 REC/PB LEVEL
VR41005
CH2 FO
VR41006
+5V
CH1 REC/PB LEVEL
VR41001
VR41002
CH1 FO
AG-7600 ONLY
TP41008
VR41007
CH2 REC CUR
CH1 REC CUR
VR41003
TP41005
TP41006
TP41007
FL41001
1.4MHz B.P.F.
1.8MHz B.P.F.
AUDIO HEAD SW SHIFT
VR41004
IC41003
Q41006
BUFFER
Q41007
TP41003
TP41003 4.0Vp-p REC/PLAY
TP41004
TP41004 5.0Vp-p REC/PLAY
TP41006 360mVp-p PLAY
TP41007 340mVp-p PLAY
HI-FI DREC Ⓛ
FM RF OUT
FM REC IN
FM HEAD SW
REC 12V
TRIC Ⓗ
Q41001
SWITCHING
QR41012
QR41004
PB FM Ⓛ
P41001
P5003
HEAD AMP C.B.A.
IC5002
REC AMP
AMP
SW
RF PRE AMP
REC/PB
D5004
Q5003
Q5005
TP5001
A. HEAD C
A. HEAD L
A. HEAD R
P5002
AUDIO HEAD (L)
AUDIO HEAD (R)
TO INTERFACE
P41003
P942
P935
P61001
Q41002
Q41003
QR41002 D41015
TO41001
TO41002
IC41007
D41003, 41004
D41001, 41002
D41005
D41006
LIMITER
CH2 METER ADJ
CH1 METER ADJ
VR41013
VR41012
Q41051
Q41052
CH2 METER
CH1 METER
P962
P62002
FRONT
IC41011
IC41013
IC41011, 41012
SELECTOR
IC41004
Q41008
MONITOR
TC OUT (X)
P974
P973
P6603
P6605
P6703
P4006
P6608
P6704
REAR AMP
REAR JACK C.B.A.
TIME CODE OUT
Q41053
RESET
+12V
Q41040
Q41037
Q41046
Q41043
Q41041, 41042
Q41038, 41039
Q41047, 41048
Q41044, 41045
IC41016
IC41017
CH2 FM AMP OUT
CH1 FM AMP OUT
CH2 LIN AMP OUT
CH1 LIN AMP OUT
IC41012
QR41006
IC4016
IC4014
IC4017
IC4015
Q4021~4023
Q4015~4017
Q4033~4035
Q4027~4029
Q4036, D4017
MUTE DRIVE
CH2 FM OUT2
CH2 FM OUT3
CH1 FM OUT2
CH1 FM OUT3
CH2 LIN OUT2
CH2 LIN OUT3
CH1 LIN OUT2
CH1 LIN OUT3
P4007
P6707
HI-FI CH2 OUTPUT
HI-FI CH1 OUTPUT
NORMAL/HI-FI CH2 OUTPUT
NORMAL/HI-FI CH1 OUTPUT
XLR M C.B.A.
REAR AMP C.B.A.
AUDIO OUTPUT LEVEL SELECT
SW41001
VR41014
T.C METER
IC41010
Q41015
D41009
QR41007
IC41014
IC41015
Q41017
Q41018
CH1 PHONE
CH2 PHONE
P951
P4901
VR4901
PHONE
FRONT JACK C.B.A.
IC41005
COMPARATOR
IC41006
IC41009
D41011
Q41011
TC REC OUT
P941
P40004
AUDIO (1)
D41010
Q41013
IC41008, 41010 D41012
WAVEFORM SHAPER
Q41012
LTC PB (X)
LTC EXT IN
P61004
P68001
TIME CODE
INTERFACE
MOTHER
Q41035
Q41019
OSC
Q41020
Q41021
Q41028
ERASE1
ERASE2
VR41015
VR41016
Q41022
Q41029
Q41027
Q41033
Q41023~41026
Q41030~41032 Q41034
V ERASE (R)
V ERASE (L)
V ERASE (S)
P41002
ERASE HEAD (R)
ERASE HEAD (L)
QR41008
QR41010
QR41011
TP41010
TP41009

INTERFACE BLOCK DIAGRAM


ADDRESS BUS
DATA BUS
CONTROL BUS
A8
IC2
P-ROM
IC3
RAM
IC5
RESET GEN
D5V
(D)
RESET Ⓛ
IC9
IC8
RAM CS GATE
IOE
IC7
RD/WR CLOCK GATE
IOWR
MERD
MEWR
IORD
FRS IQR
OSD IRQ
IC11
TRANSMITER/ RECEIVER
TRANSMIT A
RECEIVE B
TRANSMIT B
RECEIVE A
R 9P Ⓛ
P69005
P61002
9PIN CONNECT C. B. A.
X1
REF OSC
REAR AMP C. B. A.
P61010
P6606
MOTHER
P61001
P935
P942
P41003
AUDIO (2)
P923
P2203
P922
P2202
SERVO/SYSTEM CTL
S-VHS SW Ⓛ
FRS IF
FRS CLK
CTL
P931
P3931
P964
P62004
P921
P2201
VIDEO I/O
FRONT
AMP
IC10
IC13
BUFFER
X8
IC15
A10
A17
IF INT Ⓛ
CT INT Ⓛ
ME RW
ME RD
MERW
MERD
CSL
IF
TC
OEL
WEL
CTL
IC14
D7 ~ D0
IC16
A2 A3 A4
A9 A10 A8
3-8 LINE DELODER
G1 G2A G2B
Y4 Y5 Y6 Y7
A0
A1
IORD Ⓛ
IOWR Ⓛ
D0~D7
P61003
P69004
CTL 34P
CS3 Ⓛ
CS2 Ⓛ
CS1 Ⓛ
CS0 Ⓛ
RESET Ⓛ
R 34P Ⓛ
+12V
D5V
34PIN INTERFACE OPTION BOARD

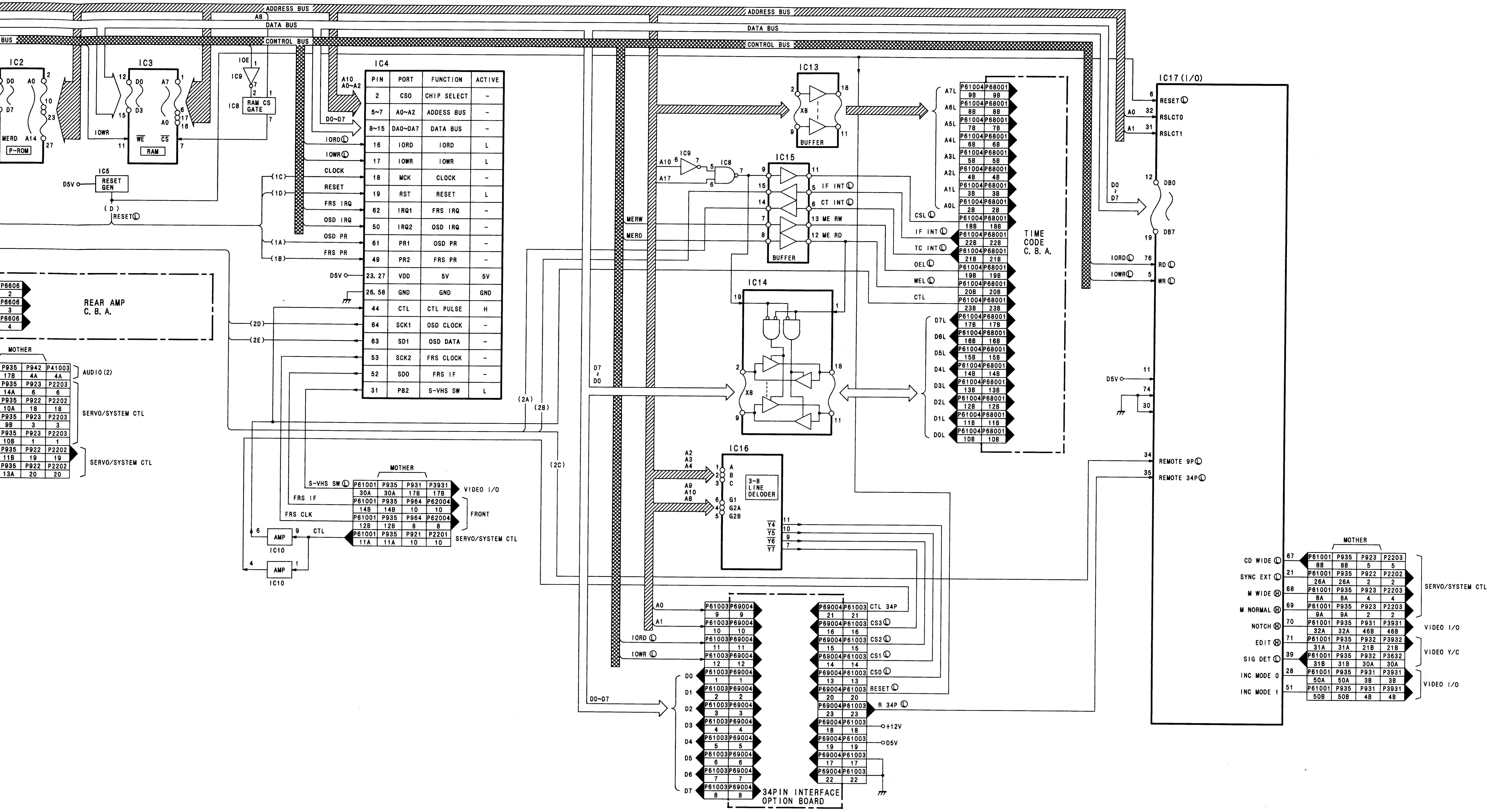
IC1 (MCPU)

PIN	PORT	FUNCTION	ACTIVE
6~22, 24	A0~A15, A17	ADDRESS BUS	–
30~37	D0~D7	DATA BUS	–
64	IOE	IOE	–
65	ME	ME	–
69	RD	RD	–
68	WR	WR	–
3	INT1	FRS IRQ	–
4	INT2	OSD IRQ	–
61	PA7	OSD PR	L
56	PA2	FRS PR	L
71	CLK	CLOCK	–
80	RESET	RESET	L
2	INT0	TC INT	L
48	TXA0	RS-422 DATA	–
49	RXA0	RS-422 DATA	–
60	PA6	IF INT	L
55	PA1	PB FM	L
54	PA0	OSD CS	–
41	PG2	FWD	L
39	PG0	TL SW	L
59	CKS	SYS CLOCK	–
58	RXS	SYS SYS	–
57	TXS	SYS IF	–
75, 74	EXTAL XTAL	REF OSC	–
76, 27	VCC	5V	5V
10, 70, 38, 29	VSS	GND	G
40	P61	TC CLK	–

IC4

PIN	PORT	FUNCTION	ACTIVE
2	CS0	CHIP SELECT	–
5~7	A0~A2	ADDESS BUS	–
8~15	DA0~DA7	DATA BUS	–
16	IORD	IORD	L
17	IOWR	IOWR	L
18	MCK	CLOCK	–
19	RST	RESET	L
62	IRQ1	FRS IRQ	–
50	IRQ2	OSD IRQ	–
61	PR1	OSD PR	–
49	PR2	FRS PR	–
23, 27	VDD	5V	5V
26, 58	GND	GND	GND
44	CTL	CTL PULSE	H
64	SCK1	OSD CLOCK	–
63	SD1	OSD DATA	–
53	SCK2	FRS CLOCK	–
52	SD0	FRS IF	–
31	PB2	S-VHS SW	L

REF. NO. 61000 SERIES


ADDRESS BUS
DATA BUS
CONTROL BUS
A8
IC2
D0
D7
A0
A14
MERD
P-ROM
IC3
D0
D3
A7
A0
WE
CS
RAM
IOWR
IOE
IC9
IC8
RAM CS GATE
IC5
RESET GEN
D5V
RESET
IC4
A10
A0~A2
D0~D7
IORD
IOWR
CLOCK
FRS IRQ
OSD IRQ
OSD PR
FRS PR
(1C)
(1D)
(1A)
(1B)
(2D)
(2E)
(2A)
(2B)
(2C)
REAR AMP C. B. A.
P6606
MOTHER
AUDIO (2)
SERVO/SYSTEM CTL
S-VHS SW
FRS IF
FRS CLK
CTL
AMP
IC10
VIDEO I/O
FRONT
IC13
X8
BUFFER
IC9
IC8
A10
A17
IC15
IF INT
CT INT
ME RW
ME RD
MERW
MERD
IC14
D7~D0
IC16
A2
A3
A4
A9
A10
A8
3-8 LINE DELODER
G1
G2A
G2B
Y4
Y5
Y6
Y7
A7L
A6L
A5L
A4L
A3L
A2L
A1L
A0L
CSL
IF INT
TC INT
OEL
WEL
CTL
D7L
D6L
D5L
D4L
D3L
D2L
D1L
D0L
P61004
P68001
TIME CODE C. B. A.
A0
A1
IORD
IOWR
D0~D7
P61003
P69004
CTL 34P
CS3
CS2
CS1
CS0
RESET
R 34P
+12V
D5V
34PIN INTERFACE OPTION BOARD
IC17 (I/O)
RESET
RSLCT0
RSLCT1
DB0
DB7
RD
WR
REMOTE 9P
REMOTE 34P
CD WIDE
SYNC EXT
M WIDE
M NORMAL
NOTCH
EDIT
SIG DET
INC MODE 0
INC MODE 1
P61001
P935
P923
P2203
P922
P2202
P931
P3931
P932
P3932
P3632
SERVO/SYSTEM CTL
VIDEO I/O
VIDEO Y/C

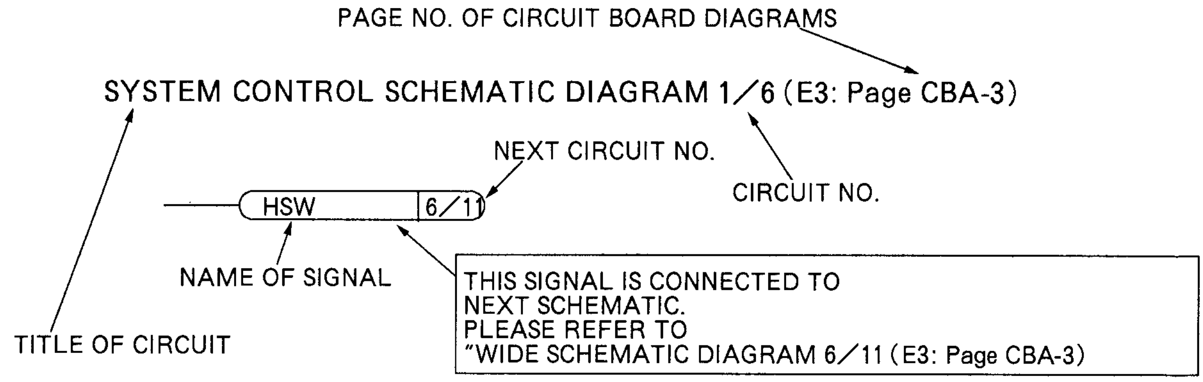
PIN	PORT	FUNCTION	ACTIVE
2	CS0	CHIP SELECT	-
5~7	A0~A2	ADDESS BUS	-
8~15	DA0~DA7	DATA BUS	-
16	IORD	IORD	L
17	IOWR	IOWR	L
18	MCK	CLOCK	-
19	RST	RESET	L
62	IRQ1	FRS IRQ	-
50	IRQ2	OSD IRQ	-
61	PR1	OSD PR	-
49	PR2	FRS PR	-
23, 27	VDD	5V	5V
26, 58	GND	GND	GND
44	CTL	CTL PULSE	H
64	SCK1	OSD CLOCK	-
63	SD1	OSD DATA	-
53	SCK2	FRS CLOCK	-
52	SD0	FRS IF	-
31	PB2	S-VHS SW	L

SECTION 6

SCHEMATIC DIAGRAMS

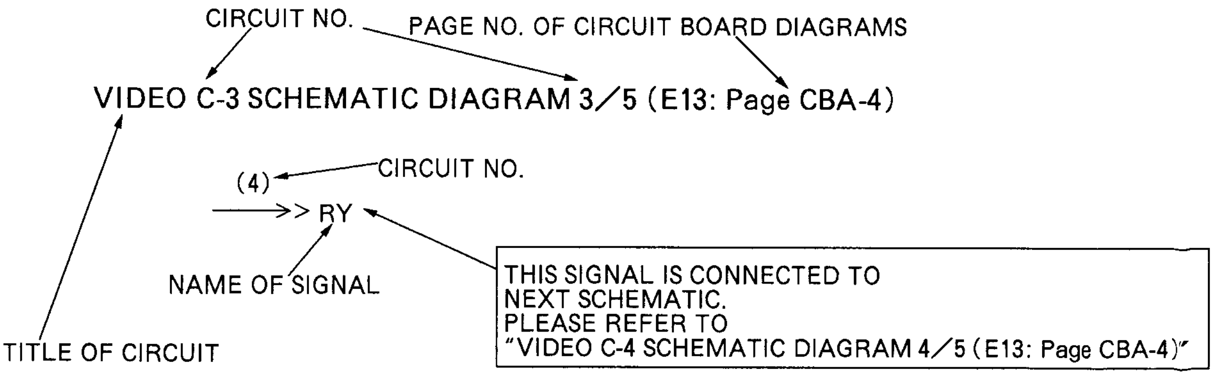
NOTE

(EX 1)


PAGE NO. OF CIRCUIT BOARD DIAGRAMS
SYSTEM CONTROL SCHEMATIC DIAGRAM 1/6 (E3: Page CBA-3)
NEXT CIRCUIT NO.
CIRCUIT NO.
HSW
6/11
NAME OF SIGNAL
TITLE OF CIRCUIT

THIS SIGNAL IS CONNECTED TO
NEXT SCHEMATIC.
PLEASE REFER TO
"WIDE SCHEMATIC DIAGRAM 6/11 (E3: Page CBA-3)

(EX 2)


CIRCUIT NO.
PAGE NO. OF CIRCUIT BOARD DIAGRAMS
VIDEO C-3 SCHEMATIC DIAGRAM 3/5 (E13: Page CBA-4)
(4)
CIRCUIT NO.
>> RY
NAME OF SIGNAL
TITLE OF CIRCUIT

THIS SIGNAL IS CONNECTED TO
NEXT SCHEMATIC.
PLEASE REFER TO
"VIDEO C-4 SCHEMATIC DIAGRAM 4/5 (E13: Page CBA-4)"

* **Mark** ⇒ Parts value, see table in the schematic diagram.

(EX:)

	AG-7700	AG-7600
R2018	10K	10K
R2019	20K	*PAT

10KΩ
No part

CONTENTS

POWER SCHEMATIC DIAGRAM 1/1 (E1) SCM-5
POWER CONNECT SCHEMATIC DIAGRAM 1/1 (E32) SCM-5
SUB SYSTEM CONTROL SCHEMATIC DIAGRAM 2/11 (E3) SCM-6
SYSTEM CONTROL SCHEMATIC DIAGRAM 1/11 (E3) SCM-7
CYL SERVO SCHEMATIC DIAGRAM 4/11 (E3) SCM-8
REEL SERVO SCHEMATIC DIAGRAM 3/11 (E3) SCM-9
CTL AMP SCHEMATIC DIAGRAM 5/11 (E3) SCM-10
WIDE SCHEMATIC DIAGRAM 6/11 (E3) SCM-11
CAPSTAN SERVO-1 SCHEMATIC DIAGRAM 7/11 (E3) SCM-11
CAPSTAN SERVO-2 SCHEMATIC DIAGRAM 8/11 (E3) SCM-12
MOTOR DRIVE-1 SCHEMATIC DIAGRAM 9/11 (E3) SCM-12
MOTOR DRIVE-2 SCHEMATIC DIAGRAM 10/11 (E3) SCM-13
SUB POWER SCHEMATIC DIAGRAM 11/11 (E3) SCM-14
VIDEO I/O-1 SCHEMATIC DIAGRAM 1/7 (E5) SCM-15
VIDEO I/O-3 SCHEMATIC DIAGRAM 3/7 (E5) SCM-16
VIDEO I/O-2 SCHEMATIC DIAGRAM 2/7 (E5) SCM-17
VIDEO I/O-4 SCHEMATIC DIAGRAM 4/7 (E5) SCM-18
VIDEO I/O-5 SCHEMATIC DIAGRAM 5/7 (E5) SCM-19
VIDEO I/O-6 SCHEMATIC DIAGRAM 6/7 (E5) SCM-20
VIDEO I/O COMPARISON CHART 7/7 (E5) SCM-20
XLR M SCHEMATIC DIAGRAM 1/1 (E30) SCM-20
XLR F SCHEMATIC DIAGRAM 1/1 (E31: AG-7700 0NLY) SCM-20
VIDEO YC-1 SCHEMATIC DIAGRAM 1/6 (E6) SCM-21
VIDEO YC-2 SCHEMATIC DIAGRAM 2/6 (E6) SCM-22
VIDEO YC-3 SCHEMATIC DIAGRAM 3/6 (E6) SCM-23
VIDEO YC-4 SCHEMATIC DIAGRAM 4/6 (E6) SCM-24
VIDEO YC COMPARISON CHART 6/6 (E6) SCM-24
VIDEO YC-5 SCHEMATIC DIAGRAM 5/6 (E6) SCM-25
YC REC-2 SCHEMATIC DIAGRAM 2/6 (E13: AG-7700 0NLY) SCM-25
YC REC-1 SCHEMATIC DIAGRAM 1/6 (E13: AG-7700 0NLY) SCM-26
YC REC-3 SCHEMATIC DIAGRAM 3/6 (E13: AG-7700 0NLY) SCM-26
YC REC-4 SCHEMATIC DIAGRAM 4/6 (E13: AG-7700 0NLY) SCM-27
YC REC-5 SCHEMATIC DIAGRAM 5/6 (E13: AG-7700 0NLY) SCM-28
YC REC-6 SCHEMATIC DIAGRAM 6/6 (E13: AG-7700 0NLY) SCM-29
CF SUB SCHEMATIC DIAGRAM 1/1 (E102: AG-7700 0NLY) SCM-29
AUDIO (1) LINER (AG-7700) SCHEMATIC DIAGRAM 1/3 (E7) SCM-29
AUDIO (1) CONTROL (AG-7700) SCHEMATIC DIAGRAM 2/3 (E7) SCM-30
AUDIO METER SCHEMATIC DIAGRAM 1/1 (E21) SCM-30
AUDIO (1) INPUT (AG-7700) SCHEMATIC DIAGRAM 3/3 (E7) SCM-31
AUDIO (1) LINER (AG-7600) SCHEMATIC DIAGRAM 1/3 (E7) SCM-32
AUDIO (1) CONTROL (AG-7600) SCHEMATIC DIAGRAM 2/3 (E7) SCM-33
AUDIO (1) INPUT (AG-7600) SCHEMATIC DIAGRAM 3/3 (E7) SCM-34

AUDIO (2) PHONE OUT (AG-7700) SCHEMATIC DIAGRAM 3/5 (E8) SCM-34
AUDIO (2) FM AUDIO (AG-7700) SCHEMATIC DIAGRAM 1/5 (E8) SCM-35
AUDIO (2) TC (AG-7700) SCHEMATIC DIAGRAM 2/5 (E8) SCM-36
AUDIO (2) FLYING ERASE (AG-7700) SCHEMATIC DIAGRAM 4/5 (E8) SCM-37
AUDIO (2) OUTPUT (AG-7700) SCHEMATIC DIAGRAM 5/5 (E8) SCM-38
AUDIO (2) FM AUDIO (AG-7600) SCHEMATIC DIAGRAM 1/4 (E8) SCM-39
AUDIO (2) TC (AG-7600) SCHEMATIC DIAGRAM 2/4 (E8) SCM-40
AUDIO (2) PHONE OUT (AG-7600) SCHEMATIC DIAGRAM 3/4 (E8) SCM-41
AUDIO (2) OUTPUT (AG-7600) SCHEMATIC DIAGRAM 4/4 (E8) SCM-41
INTERFACE-1 SCHEMATIC DIAGRAM 1/6 (E9) SCM-42
INTERFACE-2 SCHEMATIC DIAGRAM 2/6 (E9) SCM-42
INTERFACE-3 SCHEMATIC DIAGRAM 3/6 (E9) SCM-43
INTERFACE-4 SCHEMATIC DIAGRAM 4/6 (E9) SCM-43
INTERFACE-5 SCHEMATIC DIAGRAM 5/6 (E9) SCM-43
INTERFACE COMPARISON CHART 6/6 (E9) SCM-43
TIME CODE-1 SCHEMATIC DIAGRAM 1/3 (E10) SCM-44
TIME CODE COMPARISON CHART 3/3 (E10) SCM-44
TIME CODE-2 SCHEMATIC DIAGRAM 2/3 (E10) SCM-44
REEL DRIVE SCHEMATIC DIAGRAM 1/1 (E14) SCM-45
HEAD AMP SCHEMATIC DIAGRAM 1/1 (E15) SCM-46
FRONT-1 SCHEMATIC DIAGRAM 1/4 (E16) SCM-47
FRONT-2 SCHEMATIC DIAGRAM 2/4 (E16) SCM-47
FRONT-3 SCHEMATIC DIAGRAM 3/4 (E16) SCM-48
FRONT COMPARISON CHART 4/4 (E16) SCM-48
FRONT LED SCHEMATIC DIAGRAM 1/2 (E17: AG-7700 0NLY) SCM-48
FRONT LED COMPARISON CHART 2/2 (E17: AG-7700 0NLY) SCM-48
KEYBOARD SCHEMATIC DIAGRAM 1/2 (E18) SCM-48
KEYBOARD COMPARISON CHART 2/2 (E18) SCM-48
REAR AMP VIDEO SCHEMATIC DIAGRAM 1/4 (E28) SCM-49
REAR AMP AUDIO IN SCHEMATIC DIAGRAM 2/4 (E28) SCM-49
REAR AMP AUDIO OUT SCHEMATIC DIAGRAM 3/4 (E28) SCM-50
REAR AMP COMPARISON CHART 4/4 (E28) SCM-50
REAR JACK SCHEMATIC DIAGRAM 1/2 (E29) SCM-51
REAR JACK COMPARISON CHART 2/2 (E29) SCM-51
9PIN CONNECT SCHEMATIC DIAGRAM 1/1 (E33) SCM-51
MIC JACK SCHEMATIC DIAGRAM 1/1 (E20: AG-7700 0NLY) SCM-52
FRONT JACK SCHEMATIC DIAGRAM 1/2 (E19) SCM-52
FRONT JACK COMPARISON CHART 2/2 (E19) SCM-52
MOTHER SCHEMATIC DIAGRAM 1/1 (E4) SCM-53
INTERCONNECTION SCHEMATIC DIAGRAM SCM-54

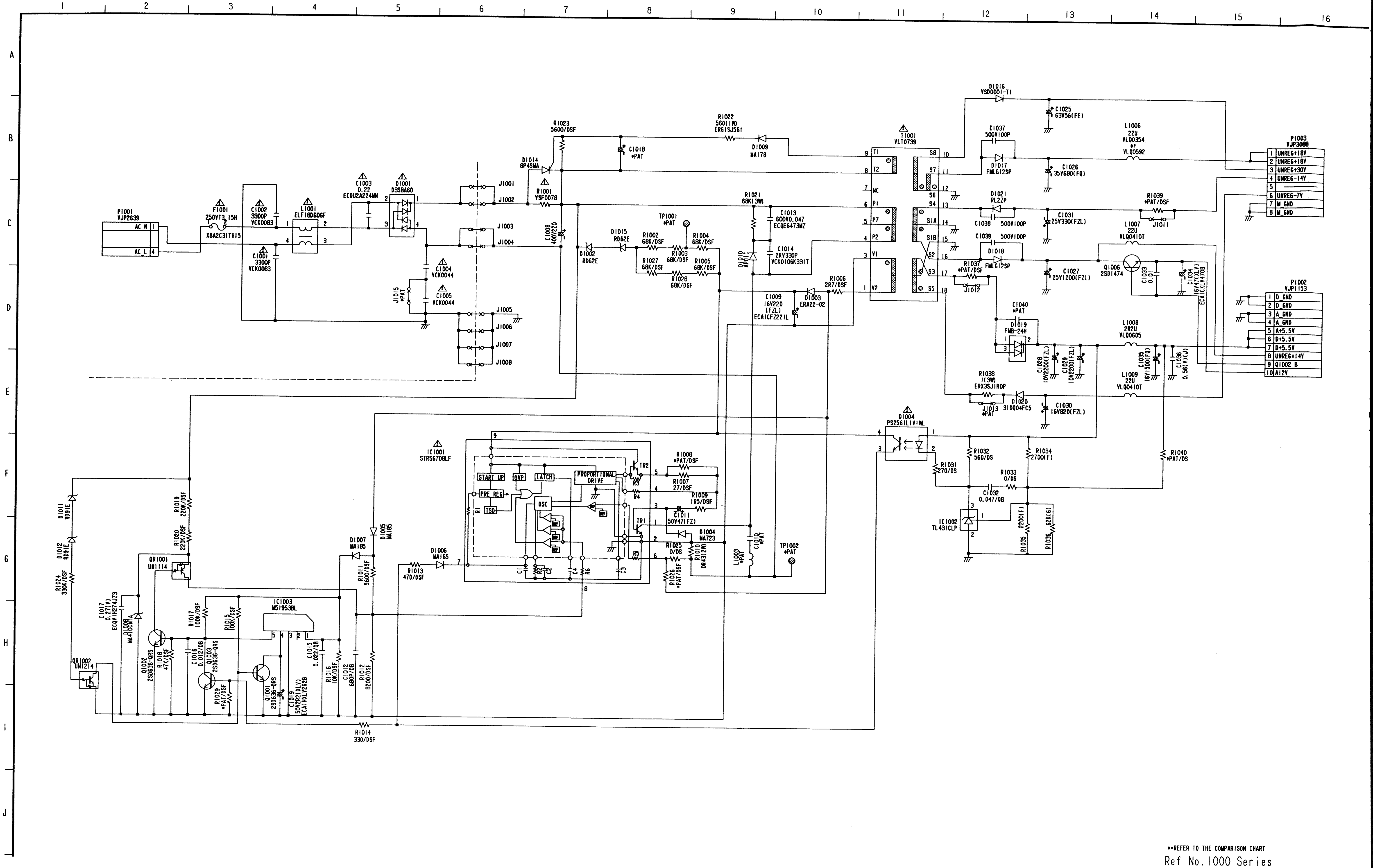
IMPORTANT SAFETY NOTICE

COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE

DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST. AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

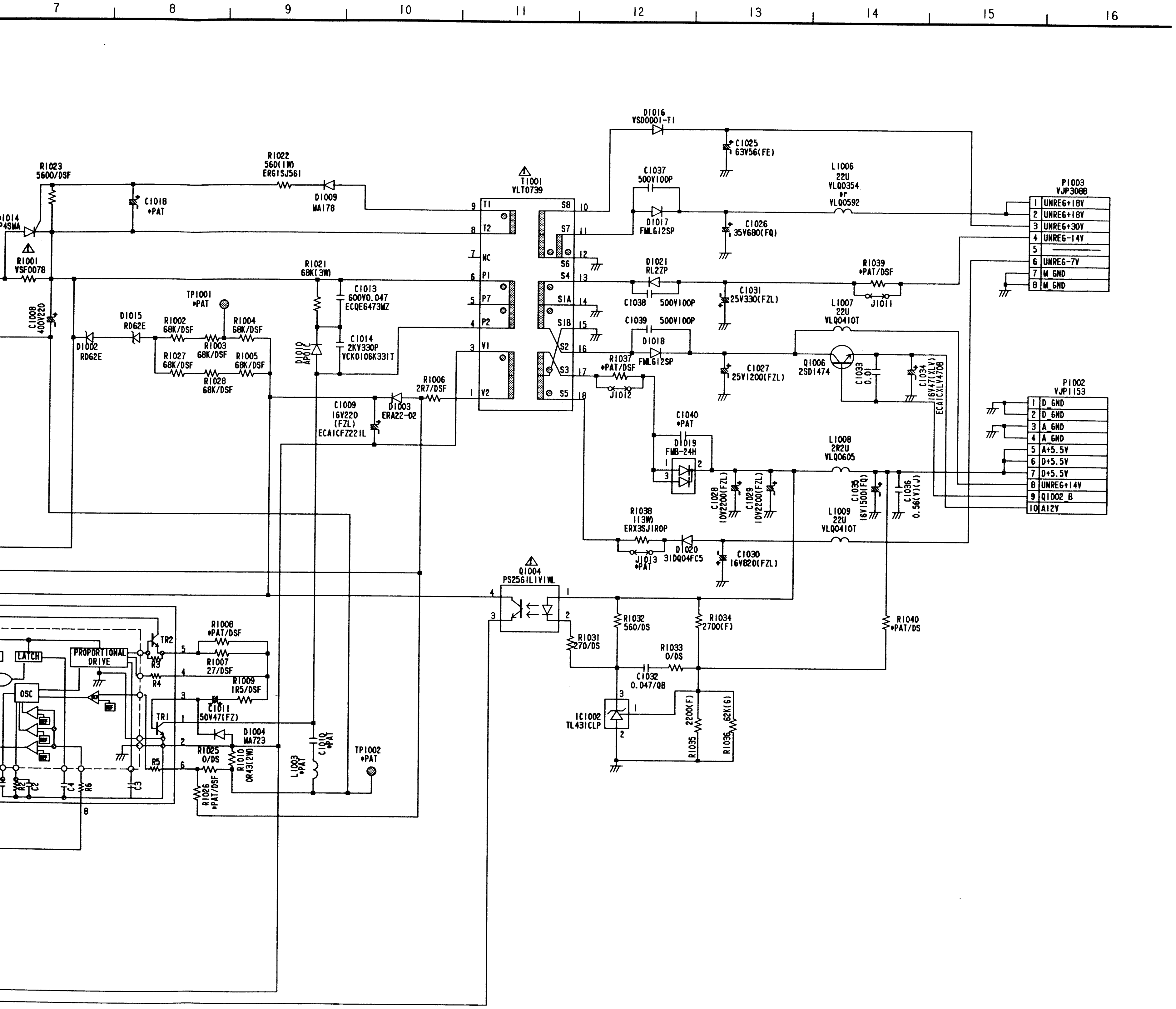
POWER SCHEMATIC DIAGRAM (E1: Page CBA-3)



1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
P1001
VJP2639
AC_N
AC_L
F1001
250VT3.15H
XBA2C31TH15
C1002
3300P
VCK0083
C1001
3300P
VCK0083
L1001
ELF18D606F
C1003
0.22
ECQU2A224MM
D1001
D3SBA60
J1001
J1002
J1003
J1004
J1005
J1006
J1007
J1008
J1015
*PAT
C1004
VCK0044
C1005
VCK0044
D1014
8P4SMA
R1001
VSF0078
C1008
400V220
R1023
5600/DSF
C1018
*PAT
R1022
560(1W)
ERG1SJ561
D1009
MA178
D1002
RD62E
D1015
RD62E
R1002
68K/DSF
R1003
68K/DSF
R1004
68K/DSF
R1005
68K/DSF
R1027
68K/DSF
R1028
68K/DSF
TP1001
*PAT
R1021
68K(3W)
C1013
600V0.047
ECQE6473MZ
C1014
2KV330P
VCK0106K331T
D1010
AP01C
R1006
2R7/DSF
D1003
ERA22-02
C1009
16V220
(FZL)
ECA1CFZ221L
T1001
VLT0739
T1
T2
NC
P1
P7
P2
V1
V2
S8
S7
S6
S4
S1A
S1B
S2
S3
S5
D1016
VSD0001-T1
C1025
63V56(FE)
C1037
500V100P
D1017
FML612SP
C1026
35V680(FQ)
L1006
22U
VLQ0354
or
VLQ0592
D1021
RL2ZP
C1038
500V100P
C1031
25V330(FZL)
R1039
*PAT/DSF
J1011
L1007
22U
VLQ0410T
C1039
500V100P
D1018
FML612SP
R1037
*PAT/DSF
J1012
C1027
25V1200(FZL)
Q1006
2SD1474
C1033
0.01
C1034
16V47(XLV)
ECA1CXLV470B
P1003
VJP3080
UNREG+18V
UNREG+18V
UNREG+30V
UNREG-14V
UNREG-7V
M_GND
M_GND
P1002
VJP1153
D_GND
D_GND
A_GND
A_GND
A+5.5V
D+5.5V
D+5.5V
UNREG+14V
Q1002_B
A12V
C1040
*PAT
D1019
FMB-24H
L1008
2R2U
VLQ0605
C1028
10V2200(FZL)
C1029
10V2200(FZL)
C1035
16V1500(FQ)
C1036
0.56(V)(J)
L1009
22U
VLQ0410T
R1038
1(3W)
ERX3SJ1R0P
J1013
*PAT
D1020
31DQ04FC5
C1030
16V820(FZL)
Q1004
PS2561L1V1WL
R1032
560/DS
R1034
2700(F)
R1031
270/DS
R1033
0/DS
C1032
0.047/QB
R1040
*PAT/DS
IC1002
TL431CLP
R1035
2200(F)
R1036
62K(E)
IC1001
STR56708LF
START UP
OVP
LATCH
PRE REG
TSD
OSC
PROPORTIONAL
DRIVE
TR1
TR2
R1008
*PAT/DSF
R1007
27/DSF
R1009
1R5/DSF
C1011
50V47(FZ)
D1004
MA723
R1025
0/DS
R1010
0R43(2W)
R1026
*PAT/DSF
L1003
*PAT
C1010
*PAT
TP1002
*PAT
D1006
MA165
R1013
470/DSF
D1007
MA185
D1005
MA185
R1011
5600/DSF
D1011
RD91E
D1012
RD91E
R1024
330K/DSF
R1019
220K/DSF
R1020
220K/DSF
QR1001
UN1114
C1017
0.27(V)
ECQV1H274JZ3
D1008
MA4100MTA
QR1002
UN1214
Q1002
2SD636-QRS
R1018
47K/DSF
R1017
100K/DSF
C1016
0.012/QB
Q1003
2SD636-QRS
R1015
100K/DSF
IC1003
M51953BL
R1029
*PAT/DSF
Q1001
2SD636-QRS
C1019
50V2R2(XLV)
ECA1HXLV2R2B
C1015
0.022/QB
R1016
10K/DSF
C1012
680P/QB
R1012
8200/DSF
R1014
330/DSF

*=REFER TO THE COMPARISON CHART

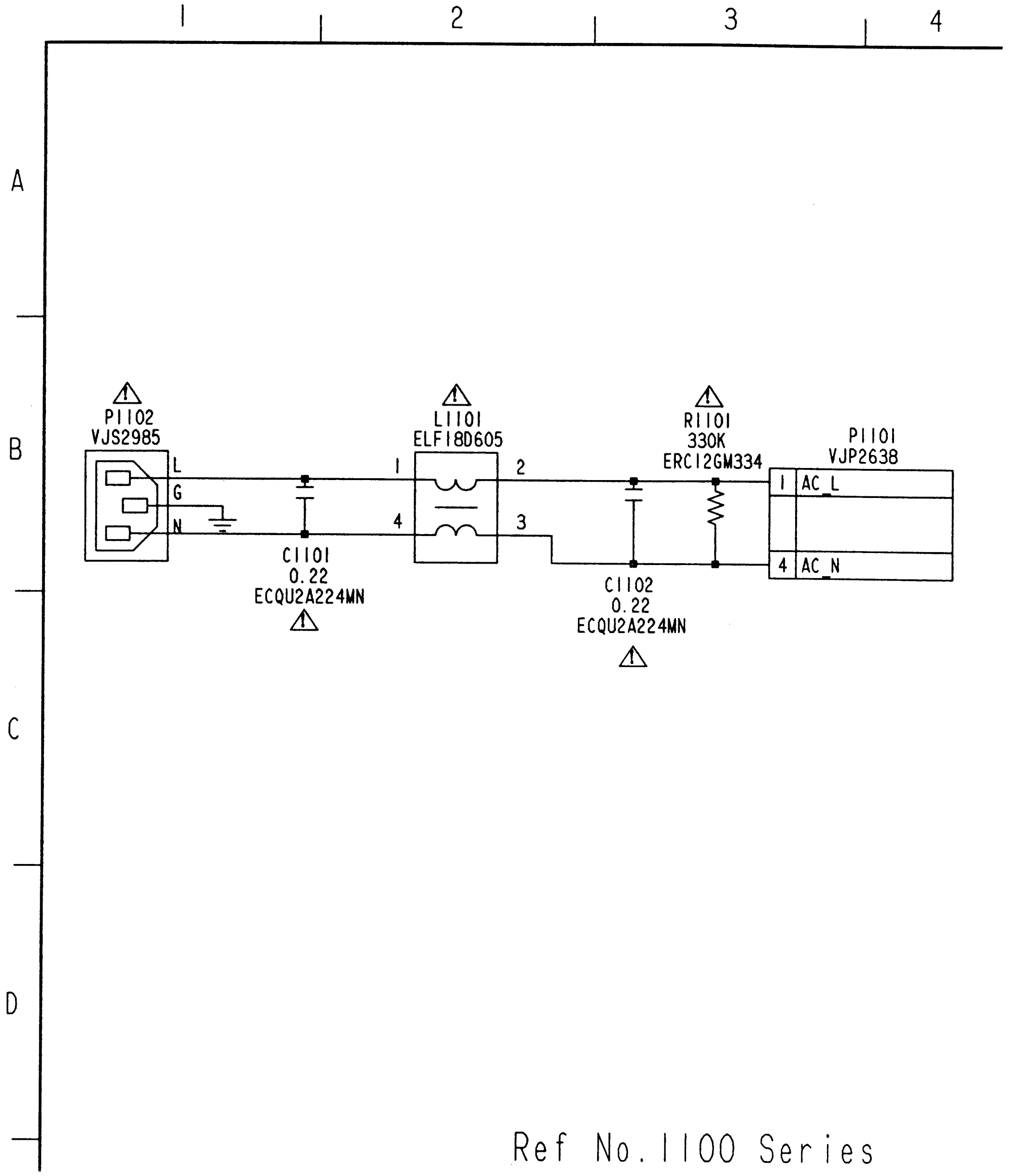
Ref No.1000 Series


7
8
9
10
11
12
13
14
15
16
R1023 5600/DSF
R1022 560(1W) ERG1SJ561
D1009 MA178
C1018 *PAT
D1014
R1001 VSF0078
C1008 400V220
D1015 RD62E
D1002 RD62E
R1002 68K/DSF
R1003 68K/DSF
R1004 68K/DSF
R1027 68K/DSF
R1005 68K/DSF
R1028 68K/DSF
TP1001 *PAT
R1021 68K(3W)
C1013 600V0.047 ECQE6473MZ
C1014 2KV330P VCKD106K331T
D1010 AP01C
C1009 16V220 (FZL) ECA1CFZ221L
D1003 ERA22-02
R1006 2R7/DSF
T1001 VLT0739
T1
T2
NC
P1
P7
P2
V1
V2
S8
S7
S6
S4
S1A
S1B
S2
S3
S5
D1016 VSD0001-T1
C1025 63V56(FE)
C1037 500V100P
D1017 FML612SP
C1026 35V680(FQ)
L1006 22U VLQ0354 or VLQ0592
D1021 RL2ZP
C1038 500V100P
C1031 25V330(FZL)
R1039 *PAT/DSF
J1011
L1007 22U VLQ0410T
C1039 500V100P
D1018
R1037 *PAT/DSF
FML612SP
J1012
C1027 25V1200(FZL)
Q1006 2SD1474
C1033 0.01
C1034 16V47(LXV) ECA1CXLV470B
P1003 VJP3088
1 UNREG+18V
2 UNREG+18V
3 UNREG+30V
4 UNREG-14V
5
6 UNREG-7V
7 M_GND
8 M_GND
P1002 VJP1153
1 D_GND
2 D_GND
3 A_GND
4 A_GND
5 A+5.5V
6 D+5.5V
7 D+5.5V
8 UNREG+14V
9 Q1002 B
10 A12V
C1040 *PAT
D1019 FMB-24H
C1028 10V2200(FZL)
C1029 10V2200(FZL)
L1008 2R2U VLQ0605
C1035 16V1500(FQ)
C1036 0.56(VJJ)
L1009 22U VLQ0410T
R1038 1(3W) ERX3SJ1R0P
J1013 *PAT
D1020 31DQ04FC5
C1030 16V820(FZL)
D1004 PS2561L1V1WL
R1032 560/DS
R1034 2700(F)
R1040 *PAT/DS
R1031 270/DS
R1033 0/DS
C1032 0.047/Q8
IC1002 TL431CLP
R1035 2200(F)
R1036 62K(6)
LATCH
PROPORTIONAL DRIVE
OSC
TR2
TR1
R3
R4
R5
R6
C2
C3
C4
R1008 *PAT/DSF
R1007 27/DSF
R1009 1R5/DSF
C1011 50V47(FZ)
D1004 MA723
R1025 0/DS
R1010 0R43(2W)
R1026 *PAT/DSF
L1003 *PAT
C1010 *PAT
TP1002 *PAT

*=REFER TO THE COMPARISON CHART

Ref No.1000 Series

POWER CONNECT SCHEMATIC DIAGRAM (E32)

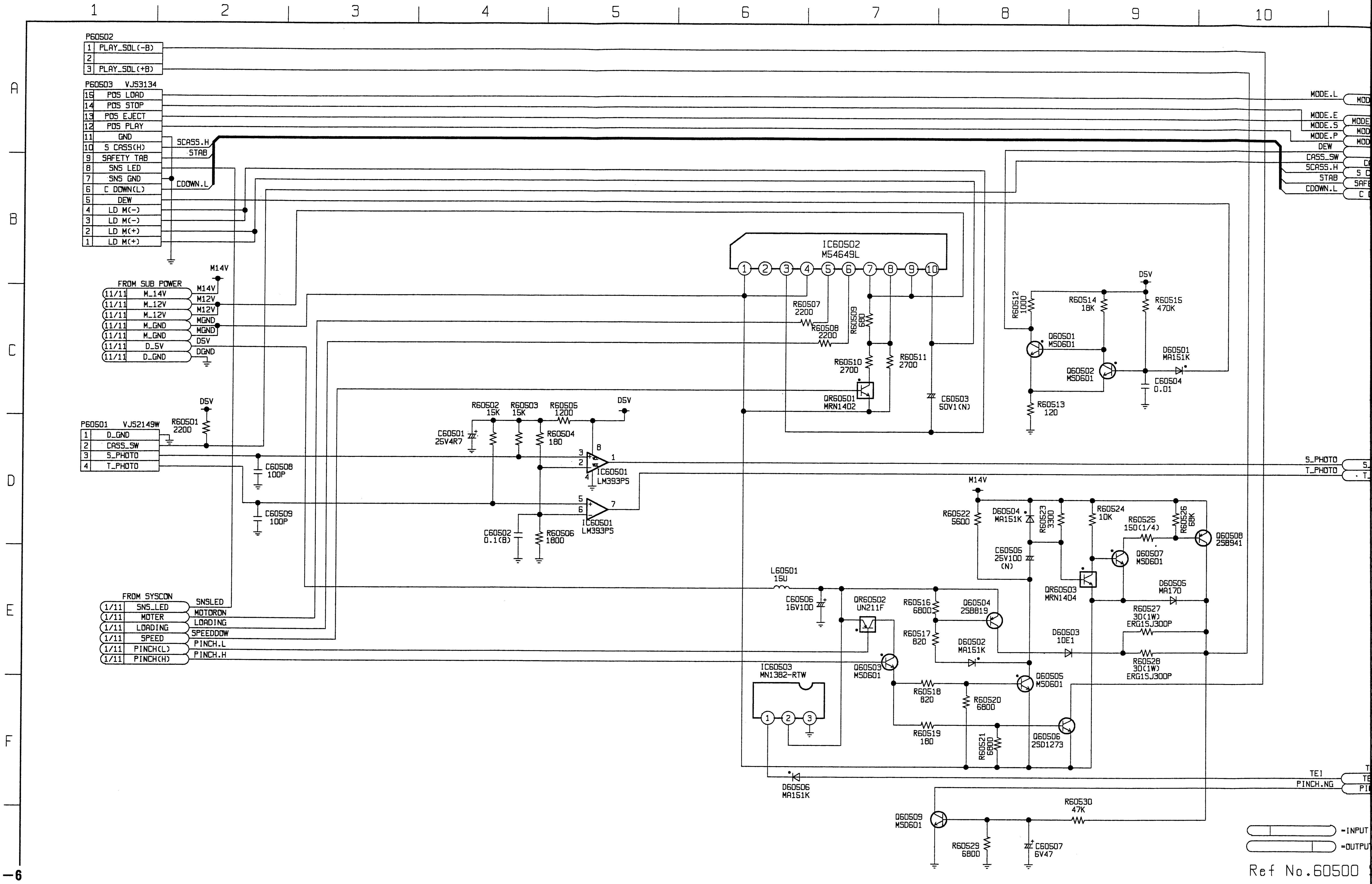

1
2
3
4
A
B
C
D
P1102 VJS2985
L
G
N
C1101 0.22 ECQU2A224MN
L1101 ELF18D605
1
2
3
4
R1101 330K ERC12GM334
C1102 0.22 ECQU2A224MN
P1101 VJP2638
1 AC_L
4 AC_N

Ref No.1100 Series

POWER DC VOLTAGE CHART

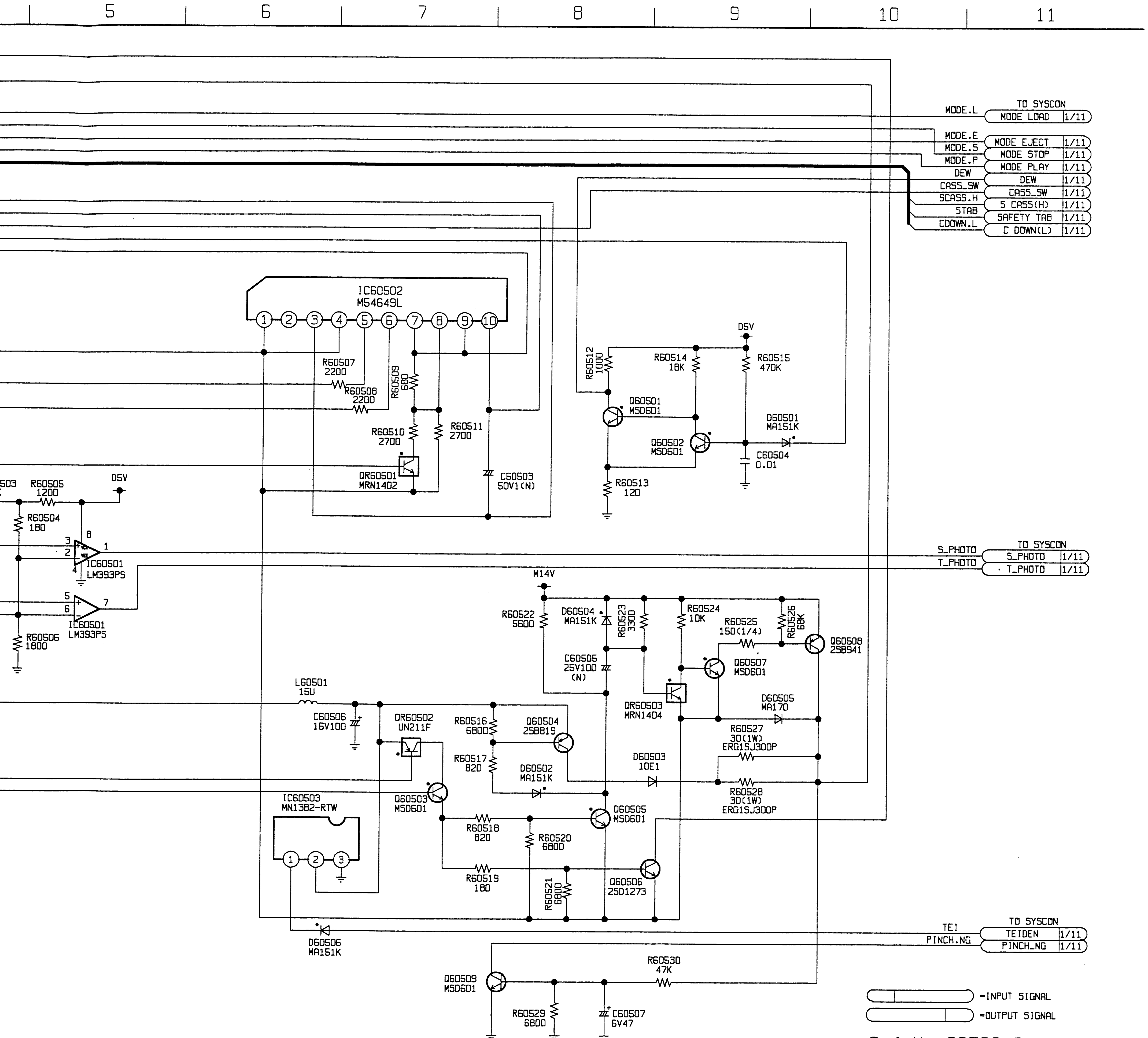
REF. NO.	IC1001									
MODE	1	2	3	4	5	6	7	8	9	
STOP	–	0	0	0.3	0.9	−0.1	0.2	1.3	7.1	
REC	–	0	0	0.3	0.9	−0.1	0.2	1.3	7.1	
REF. NO.	IC1002					IC1003				
MODE	K	A	G			1	2	3	4	5
STOP	3.9	0	2.5			6.7	0	0	1.2	0
REC	3.9	0	2.5			6.7	0	0	1.2	0
REF. NO.	Q1001			Q1002			Q1003			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	1.2	0	0	10.0	0	0	0	0.7	
REC	0	1.2	0	0	–	0	0	0	0.7	
REF. NO.	Q1004						Q1006			
MODE	1	2	3	4			E	C	B	
STOP	5.5	4.4	1.3	7.1			11.7	13.1	12.3	
REC	5.5	4.4	1.2	7.1			11.7	13.0	12.3	
REF. NO.	QR1001			QR1002						
MODE	E	C	B	E	C	B				
STOP	10.1	1.3	10.0	0	0	4.2				
REC	10.1	1.3	–	0	0	4.2				

SUB SYSTEM CONTROL SCHEMATIC DIAGRAM 2/11 (E3: Page CBA-5)



1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
P60502
1 PLAY_SOL(-B)
2
3 PLAY_SOL(+B)
P60503 VJS3134
15 POS LOAD
14 POS STOP
13 POS EJECT
12 POS PLAY
11 GND
10 S CASS(H)
9 SAFETY TAB
8 SNS LED
7 SNS GND
6 C DOWN(L)
5 DEW
4 LD M(-)
3 LD M(-)
2 LD M(+)
1 LD M(+)
SCASS.H
STAB
CDOWN.L
M14V
FROM SUB POWER
11/11 M_14V
11/11 M_12V
11/11 M_12V
11/11 M_GND
11/11 M_GND
11/11 D_5V
11/11 D_GND
M14V
M12V
M12V
MGND
MGND
D5V
DGND
D5V
P60501 VJS2149W
1 D_GND
2 CASS_SW
3 S_PHOTO
4 T_PHOTO
R60501 2200
C60508 100P
C60509 100P
R60502 15K
R60503 15K
R60505 1200
R60504 180
D5V
C60501 25V4R7
IC60501 LM393PS
IC60501 LM393PS
C60502 0.1(B)
R60506 1800
FROM SYSCON
1/11 SNS_LED
1/11 MOTER
1/11 LOADING
1/11 SPEED
1/11 PINCH(L)
1/11 PINCH(H)
SNSLED
MOTORON
LOADING
SPEEDDOW
PINCH.L
PINCH.H
IC60502 M54649L
R60507 2200
R60508 2200
R60509 680
R60510 2700
R60511 2700
QR60501 MRN1402
C60503 50V1(N)
D5V
R60512 1000
R60514 18K
R60515 470K
Q60501 MSD601
Q60502 MSD601
D60501 MA151K
C60504 0.01
R60513 120
MODE.L
MODE.E
MODE.S
MODE.P
DEW
CASS_SW
SCASS.H
STAB
CDOWN.L
S_PHOTO
T_PHOTO
M14V
R60522 5600
D60504 MA151K
R60523 3300
R60524 10K
R60525 150(1/4)
R60526 68K
Q60508 2SB941
C60505 25V100 (N)
Q60507 MSD601
QR60503 MRN1404
D60505 MA170
L60501 15U
C60506 16V100
QR60502 UN211F
R60516 6800
Q60504 2SB819
R60517 820
D60502 MA151K
D60503 10E1
R60527 30(1W) ERG1SJ300P
R60528 30(1W) ERG1SJ300P
IC60503 MN1382-RTW
Q60503 MSD601
Q60505 MSD601
R60518 820
R60520 6800
R60519 180
R60521 6800
Q60506 2SD1273
D60506 MA151K
TEI
PINCH.NG
R60530 47K
Q60509 MSD601
R60529 6800
C60507 6V47
=INPUT
=OUTPUT
Ref No.60500

: Page CBA-5)



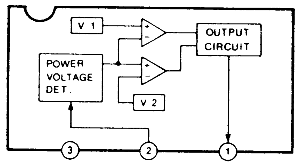
5
6
7
8
9
10
11
TO SYSCON
MODE.L
MODE LOAD 1/11
MODE.E
MODE EJECT 1/11
MODE.S
MODE STOP 1/11
MODE.P
MODE PLAY 1/11
DEW
DEW 1/11
CASS_SW
CASS_SW 1/11
SCASS.H
S CASS(H) 1/11
STAB
SAFETY TAB 1/11
CDOWN.L
C DOWN(L) 1/11
IC60502
M54649L
R60507
2200
R60508
2200
R60509
680
R60510
2700
R60511
2700
QR60501
MRN1402
C60503
50V1(N)
D5V
R60512
1000
R60514
18K
R60515
470K
Q60501
MSD601
Q60502
MSD601
D60501
MA151K
C60504
0.01
R60513
120
R60505
1200
R60504
180
IC60501
LM393PS
R60506
1800
S_PHOTO
T_PHOTO
TO SYSCON
S_PHOTO 1/11
T_PHOTO 1/11
M14V
R60522
5600
D60504
MA151K
R60523
3300
R60524
10K
R60525
150(1/4)
R60526
68K
Q60508
2SB941
C60505
25V100
(N)
Q60507
MSD601
QR60503
MRN1404
D60505
MA170
R60527
30(1W)
ERG1SJ300P
L60501
15U
C60506
16V100
QR60502
UN211F
R60516
6800
Q60504
2SB819
R60517
820
D60502
MA151K
D60503
10E1
R60528
30(1W)
ERG1SJ300P
IC60503
MN1382-RTW
Q60503
MSD601
Q60505
MSD601
R60518
820
R60520
6800
R60519
180
R60521
6800
Q60506
2SD1273
D60506
MA151K
TEI
PINCH.NG
TO SYSCON
TEIDEN 1/11
PINCH_NG 1/11
Q60509
MSD601
R60530
47K
R60529
6800
C60507
6V47
=INPUT SIGNAL
=OUTPUT SIGNAL

Ref No.60500 Series.

SUB SYSTEM CONTROL DC VOLTAGE CHART

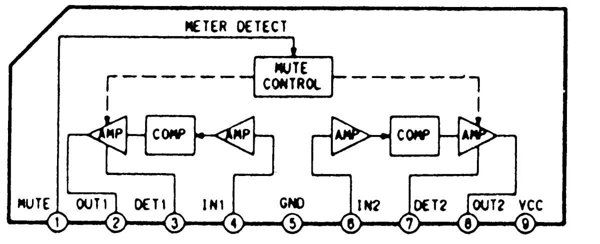
REF. NO.	IC60501									
MODE	1	2	3	4	5	6	7	8		
STOP	4.9	2.9	3.2	0	3.2	2.9	4.9	5.1		
REC	4.8	2.9	3.2	0	3.2	2.9	4.8	5.1		
F.F	4.9	2.9	3.2	0	3.2	2.9	4.9	5.2		
REF. NO.	IC60502									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0.2	0.2	0	0	0	12.9	8.4	12.9	0.2
REC	0	0.2	0.2	0	0	0	12.9	8.4	12.9	0.2
F.F.	0	0.2	0.2	0	0	0	12.9	10.3	12.9	0.2
REF. NO.	IC60503									
MODE	V	G	O							
STOP	5.0	0	5.0							
REC	5.0	0	5.0							
F.F.	5.0	0	5.2							
REF. NO.	Q60501			Q60502			Q60503			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0.6	0.6	1.2	0.6	1.2	0.4	4.2	4.8	4.8	
REC	0.6	0.6	1.2	0.6	1.2	0.4	4.2	4.8	4.8	
F.F.	0.6	0.6	1.2	0.6	1.2	0.4	0	0.1	0	
REF. NO.	Q60504			Q60505			Q60506			
MODE	E	C	B	E	C	B	E	C	B	
STOP	5.0	4.8	4.2	0	0	0.8	0	0	0.7	
REC	5.0	4.8	4.2	0	0	0.8	0	0	0.7	
F.F.	5.2	−0.1	4.2	0	14.9	0	0	0	0	
REF. NO.	Q60507			Q60508			Q60509			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	14.8	0	14.9	1.4	14.8	0	4.9	0.2	
REC	0	14.8	0	14.9	1.4	14.8	0	4.8	0.2	
F.F.	0	14.8	0	14.9	0	14.8	0	4.9	0	
REF. NO.	QR60501			QR60502			QR60503			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	10.3	0	4.9	4.8	0	0	0	13.9	
REC	0	10.2	0	4.9	4.8	0	0	0	13.9	
F.F.	0	10.2	0	5.2	0	4.9	0	0	13.9	

IC60503
MN1382-RTW



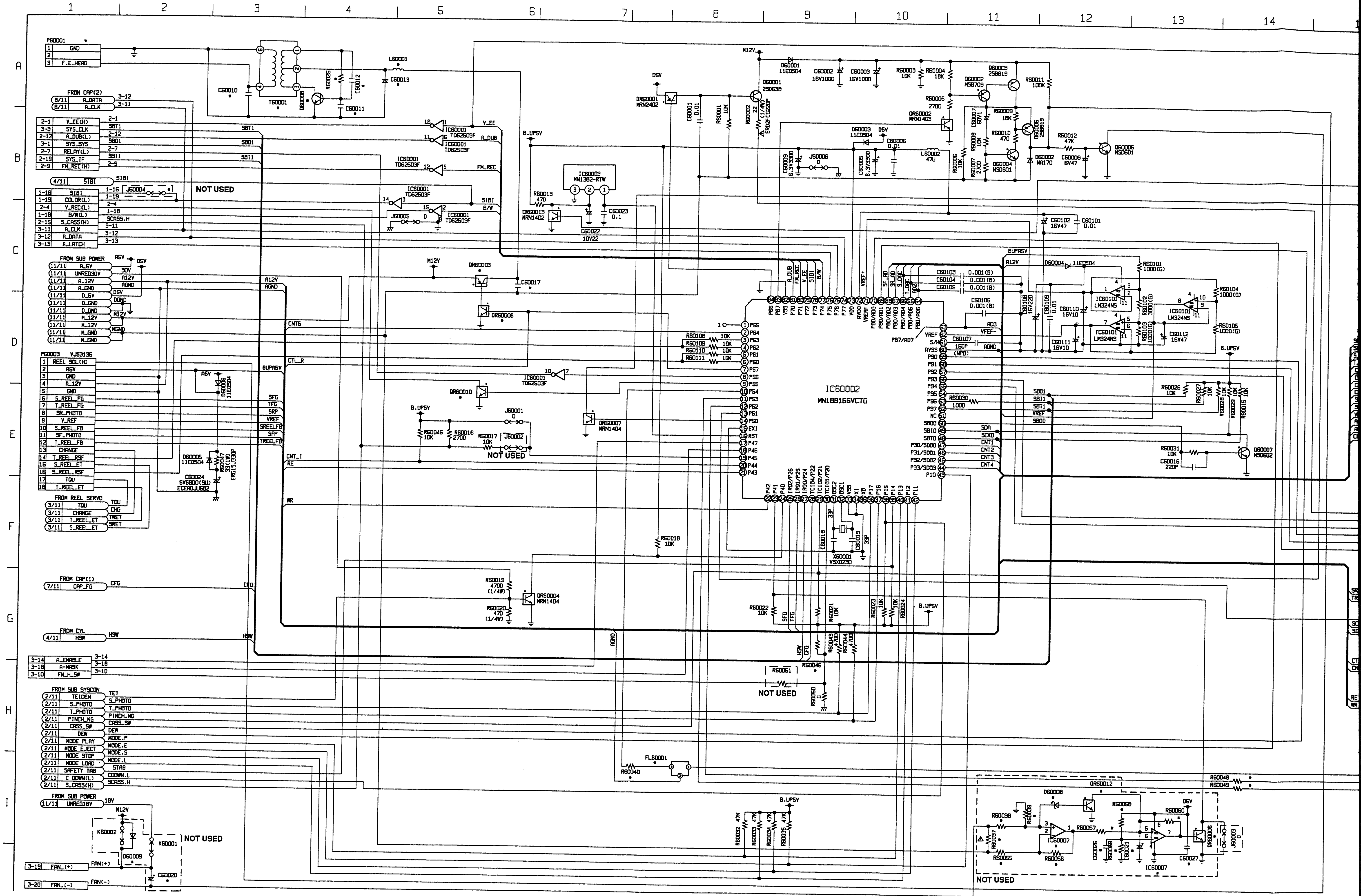
V1
OUTPUT CIRCUIT
POWER VOLTAGE DET
V2
③
②
①

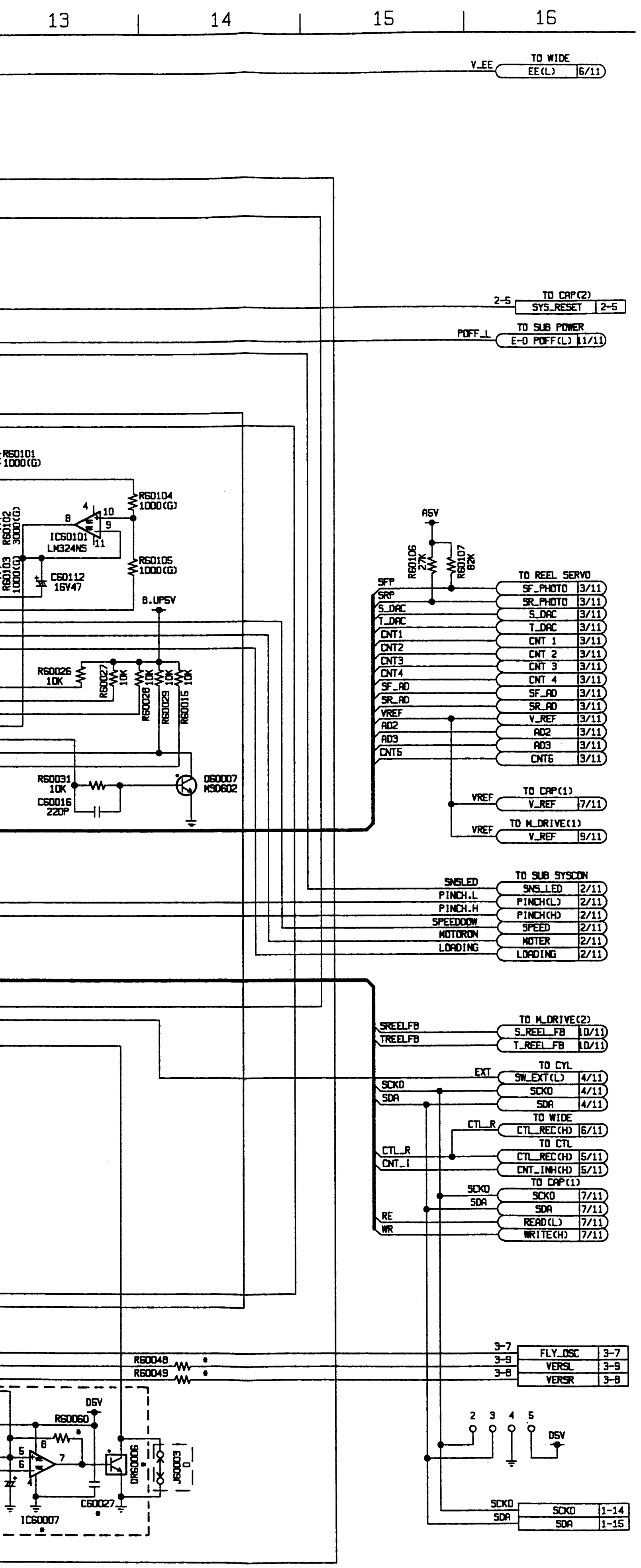
IC60502
M54649L



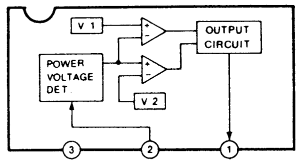
METER DETECT
MUTE CONTROL
AMP
COMP
AMP
AMP
COMP
AMP
MUTE ①
OUT1 ②
DET1 ③
IN1 ④
GND ⑤
IN2 ⑥
DET2 ⑦
OUT2 ⑧
VCC ⑨

SYSTEM CONTROL SCHEMATIC DIAGRAM 1/11 (E3: Page CBA-5)

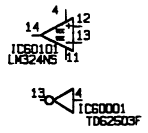

1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
P60001
GND
F.E_HEAD
FROM CAP(2)
8/11 A_DATA
8/11 A_CLK
V_EE(H)
SYS_CLK
A_DUB(L)
SYS_SYS
RELAY(L)
SYS_IF
FM_REC(H)
4/11 S1B1
COLOR(L)
V_REC(L)
B/W(L)
S_CASS(H)
A_CLK
A_DATA
A_LATCH
NOT USED
J60004
FROM SUB POWER
A_5V
UNREG30V
A_12V
A_GND
D_5V
D_GND
M_12V
M_GND
P60003 VJ53135
REEL SOL(H)
A5V
GND
A_12V
S_REEL_FG
T_REEL_FG
SR_PHOTO
V_REF
S_REEL_FB
SF_PHOTO
T_REEL_FB
CHANGE
T_REEL_RSF
S_REEL_ET
S_REEL_RSF
TOU
T_REEL_ET
FROM REEL SERVO
3/11 TOU
3/11 CHANGE
3/11 T_REEL_ET
3/11 S_REEL_ET
FROM CAP(1)
7/11 CAP_FG
CFG
FROM CYL
4/11 HSW
HSW
A_ENABLE
A-MASK
FM_H_SW
FROM SUB SYSCON
TEIDEN
S_PHOTO
T_PHOTO
PINCH_NG
CASS_SW
DEW
MODE PLAY
MODE EJECT
MODE STOP
MODE LOAD
SAFETY TAB
C DOWN(L)
S_CASS(H)
FROM SUB POWER
11/11 UNREG18V
18V
M12V
K60002
D60009
K60001
C60020
FAN(+)
FAN(-)
3-19 FAN_(+)
3-20 FAN_(-)
T60001
D60008
R60025
C60010
C60011
C60012
C60013
L60001
IC60001 TD62503F
V_EE
A_DUB
FM_REC
S1B1
B/W
J60005
B.UP5V
IC60003 MN1382-RTW
R60013 470
DR60013 MRN1402
C60022 10V22
C60023 0.1
D5V
DR60001 MRN2402
C60001 0.01
R60001 10K
R60002 22 (1/4W) ERD2FCJ220P
M12V
D60001 11ED504
Q60001 2SD638
C60002 16V1000
C60003 16V1000
R60003 10K
R60004 18K
Q60002 MS8709
Q60003 2SB819
R60011 100K
R60005 2700
DR60002 MRN1403
C60007 50V1
R60009 18K
Q60005 2SB819
R60010 470
R60008 10K
R60007 2700
Q60004 MSD601
D60002 MA170
C60008 6V47
R60012 47K
Q60006 MSD601
D60003 11ED504
C60006 0.01
L60002 47U
C60009 6.3V3300
J60006 0
C60005 6.3V3300
R60006 10K
C60102 16V47
C60101 0.01
M12V
DR60003
C60017
DR60008
CNT5
CTL_R
8UPA5V
SFG
TFG
SRP
VREF
SREELFB
SFP
TREELFB
CNT_I
RE
WR
DR60010
B.UP5V
R60045 10K
R60016 2700
R60017 10K
J60001 0
J60002
NOT USED
D60006 11ED504
D60005 11ED504
R60047 33(1/4W) ERG1SJ330P
C60024 6V6800(SU) ECEA0JU682
DR60007 MRN1404
R60108 10K
R60109 10K
R60110 10K
R60111 10K
IC60002
MN188166VCTG
P65
P64
P63
P62
P61
P60
P57
P56
P55
P54
P53
P52
P51
P50
EXI
RST
P47
P46
P45
P44
P43
P42
P41
P40
IRQ2/P26
IRQ1/P25
IRQ0/P24
TCIO4/P22
TCIO2/P21
TCIO1/P20
OSC2
OSC1
VSS
XI
X0
P17
P16
P15
P14
P13
P12
P11
VREF
S/H
AVSS
P90
P91
P92
P93
P94
P95
P96
P97
NC
SBD0
SBI0
SBT0
P30/SD00
P31/SD01
P32/SD02
P33/SD03
P10
P87/AD7
VREF+
AVDD
VDD
P66
P67
P70
P71
P72
P73
P74
P75
P76
P77
P80/AD0
P81/AD1
P82/AD2
P83/AD3
P84/AD4
P85/AD5
P86/AD6
SF_AD
V_REF
S_REC
T_REC
C60103 0.001(B)
C60104 0.001(B)
C60105 0.001(B)
C60106 0.001(B)
C60107 150P (NPO)
AD3
VFEF-
AGND
C60108 16V220
C60109 0.01
C60110 16V10
C60111 16V10
IC60101 LM324NS
R60101 1000(G)
R60102 3000(G)
R60103 1000(G)
R60104 1000(G)
R60105 1000(G)
C60112 16V47
D60004 11ED504
A12V
8UPA5V
R60030 1000
R60026 10K
R60027 10K
R60028 10K
R60029 10K
R60015 10K
SB01
SBI1
SBT1
VREF
SB00
SDA
SCK0
CNT1
CNT2
CNT3
CNT4
R60031 10K
C60016 220P
Q60007 MSD602
R60018 10K
C60018 33P
C60019 33P
X60001 VSX0230
R60019 4700 (1/4W)
R60020 470 (1/4W)
DR60004 MRN1404
R60022 10K
R60021 10K
R60023 10K
R60024 10K
R60043 4700
R60044 4700
R60046
R60051
NOT USED
R60060 0
FL60001
R60040
R60032 47K
R60033 47K
R60034 47K
R60035 47K
R60048
R60049
DR60012
D60008
R60038
R60039
IC60007
R60037
R60055
R60056
R60057
R60058
R60059
R60060
C60026
C60021
C60027
DR60006
J60003 0
NOT USED


13
14
15
16
V_EE
TO WIDE
EE(L) 6/11
2-5
TO CAP(2)
SYS_RESET 2-5
POFF_L
TO SUB POWER
E-O POFF(L) 11/11
R60101 1000(G)
R60104 1000(G)
R60102 3000(D)
IC60101 LM324NS
R60103 1000(G)
C60112 16V47
R60105 1000(G)
B.UP5V
A5V
R60106 27K
R60107 82K
SFP
SRP
S_DAC
T_DAC
CNT1
CNT2
CNT3
CNT4
SF_AD
SR_AD
VREF
AD2
AD3
CNT5
TO REEL SERVO
SF_PHOTO 3/11
SR_PHOTO 3/11
S_DAC 3/11
T_DAC 3/11
CNT 1 3/11
CNT 2 3/11
CNT 3 3/11
CNT 4 3/11
SF_AD 3/11
SR_AD 3/11
V_REF 3/11
AD2 3/11
AD3 3/11
CNT5 3/11
R60026 10K
R60027 10K
R60028 10K
R60029 10K
R60015 10K
R60031 10K
C60016 220P
D60007 MS0602
VREF
TO CAP(1)
V_REF 7/11
TO M_DRIVE(1)
V_REF 9/11
SNSLED
PINCH.L
PINCH.H
SPEEDDOW
MOTORON
LOADING
TO SUB SYSCON
SNS_LED 2/11
PINCH(L) 2/11
PINCH(H) 2/11
SPEED 2/11
MOTER 2/11
LOADING 2/11
SREELFB
TREELFB
TO M_DRIVE(2)
S_REEL_FB 10/11
T_REEL_FB 10/11
EXT
TO CYL
SCKO
SDA
SW_EXT(L) 4/11
SCKO 4/11
SDA 4/11
CTL_R
TO WIDE
CTL_REC(H) 6/11
CTL_R
CNT_I
TO CTL
CTL_REC(H) 5/11
CNT_INH(H) 5/11
SCKO
SDA
TO CAP(1)
SCKO 7/11
SDA 7/11
RE
WR
READ(L) 7/11
WRITE(H) 7/11
R60048
R60049
3-7
3-9
3-8
FLY_DSC 3-7
VERSL 3-9
VERSR 3-8
D5V
R60060
IC60007
C60027
DR60006
J60003
2 3 4 5
D5V
SCKO
SDA
SCKO 1-14
SDA 1-15

IC60003
MN1382-RTW


V 1
OUTPUT CIRCUIT
POWER VOLTAGE DET
V 2
3
2
1

	AG-7700	AG-7600
C60010	0.033(B)	———
C60011	0.0047(B)(J)	———
C60012	0.01(B)(J)	———
C60013	16V10	———
C60017	0.01	———
FL60001	VLF0630	———
L60001	470U	———
P60001	VJP1230T	———
Q60008	2SD636	———
QR60003	MRN2402	———
QR60008	MRN1404	———
QR60010	MRN1404	———
R60025	33K(1/4W)	———
R60040	100	———
R60048	100	———
R60049	100	———
T60001	EI07QF002B	———


4
14
12
13
11
IC60101 LM324NS
13
14
IC60001 TD62503F

=INPUT SIGNAL
=OUTPUT SIGNAL
*=REFER TO THE COMPARISON CHART
Ref No.60000 Series.

SYSTEM CONTROL DC VOLTAGE CHART

REF. NO.	IC60001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	0	0	0	0	0	0	0	0	11.5	4.6	0	0	5.0	4.5	5.0				
REC	0	0	0	0	0	0	4.6	0	0	0	4.6	0	0	5.0	4.5	5.0				
F.F	0	0	0	0	0	0	0	0	0	11.5	4.6	0	0	5.0	4.5	5.0				

REF. NO.	IC60002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	4.8	0	0	0	0	0	0	0	0	0	0	4.9	0	0	4.9	0	4.7	4.9	0
REC	0	4.8	0	0	0	0	4.8	4.7	4.8	0	3.2	3.2	4.9	0	0	4.9	0	4.7	4.9	0
F.F	0	0	0	0	0	0	0	0	0	0	0	0	4.9	0	0	4.9	0	4.8	4.9	0

REF. NO.	IC60002																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	4.5	0	0	0.1	4.7	0.1	2.5	0	4.9	0	2.2	–	0	0	4.8	4.9	4.9	0	0	0
REC	4.5	0	0	0	2.4	2.3	2.6	2.5	4.9	0	2.4	–	0	0	4.8	4.9	4.9	0	0	0
F.F	4.6	0	0	0.1	2.1	2.2	2.6	5.2	4.9	0	2.4	–	0	0	4.9	4.9	4.9	0	0	4.9

REF. NO.	IC60002																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.0	4.6	0.2	0	4.7	4.5	4.9	4.8	4.8	0	0	0	0
REC	4.8	4.8	4.8	4.8	0	4.8	0	5.0	4.6	0.2	0.2	4.8	4.5	4.9	4.8	0	0	0	0	0
F.F	4.9	0	4.9	4.9	4.9	4.9	4.9	5.0	4.7	0.2	0.6	4.8	4.5	4.9	0	4.9	0	0	0	0

REF. NO.	IC60002																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	1.1	0.9	1.3	2.3	2.3	2.5	4.6	4.7	2.6	0.6	3.8	4.8	4.8	4.7	0.1	4.2	0	0	0	0
REC	1.1	0.9	1.0	2.3	2.3	2.5	4.6	2.4	2.6	0.6	3.8	4.9	4.9	4.8	0.1	4.3	0	0	0	0
F.F	0.7	0.9	1.0	3.7	2.7	2.3	0.6	0.5	2.6	0.6	3.8	4.9	4.9	4.9	0.1	4.3	0	0	0	0

REF. NO.	IC60002																			
MODE	81	82	83	84																
STOP	0	0	0	4.5																
REC	0	0	0	4.5																
F.F	0	0	0	4.6																

REF. NO.	IC60003																			
MODE	V	G	O																	
STOP	4.9	0	4.9																	
REC	4.8	0	4.8																	
F.F	4.9	0	4.9																	

REF. NO.	IC60101																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	3.8	3.8	3.8	11.5	1.0	1.0	1.0	2.4	2.4	2.4	0	0.1	0.1	10.3						
REC	3.8	3.8	3.8	11.5	1.0	1.0	1.0	2.4	2.4	2.4	0	0.1	0.1	0.3						
F.F	3.8	3.8	3.8	11.5	1.0	1.0	1.0	2.4	2.4	2.4	0	0.1	0.1	0.3						

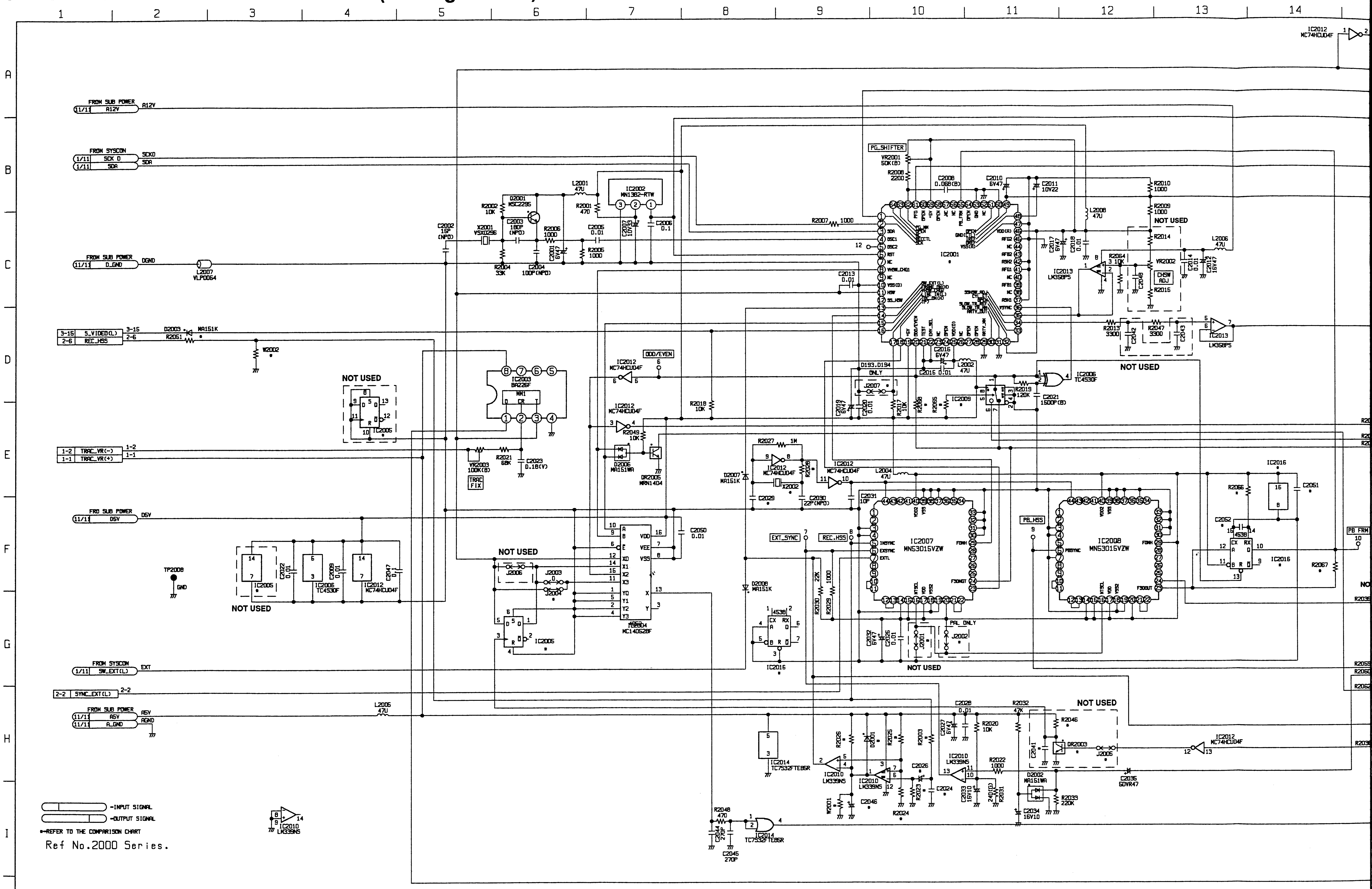
REF. NO.	Q60001			Q60002			Q60003			Q60004			Q60005			Q60006				
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B		
STOP	0.5	12.6	0.4	11.7	0	12.2	12.4	0	11.9	0	0	0	0	0.1	0	0	4.9	0.1		
REC	0.5	12.6	0.4	11.7	0	12.2	12.4	0	11.9	0	0	0	0	0	0	0	4.9	0		
F.F.	0.5	12.6	0.4	11.7	0	12.2	12.4	0	11.9	0	0	0	0	0	0	0	4.9	0		

REF. NO.	Q60007			Q60008																
MODE	E	C	B	E	C	B														
STOP	0	4.6	0.1	0	0.1	0.1														
REC	0	4.6	0.1	0	11.9	−0.7														
F.F.	0	4.6	0.2	0	0.2	0.2														

REF. NO.	QR60001			QR60002			QR60003			QR60004			QR60007			QR60008				
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B		
STOP	5.2	0.4	4.5	0	12.2	0	12.5	0.2	12.6	0	0.1	2.9	0	5.3	0	0	13.0	0		
REC	5.1	0.4	4.5	0	12.2	0	12.5	12.4	0.1	0	0.1	0	0	5.3	0	0	0.1	4.8		
F.F.	5.2	0	4.9	0	12.2	0	12.5	0.3	12.5	0	0.1	2.9	0	5.3	0	0	13.0	0		

REF. NO.	QR60010			QR60013																
MODE	E	C	B	E	C	B														
STOP	0	3.7	0	0	4.8	0														
REC	0	0.1	4.9	0	4.8	0														
F.F.	0	3.7	0	0	4.9	0														

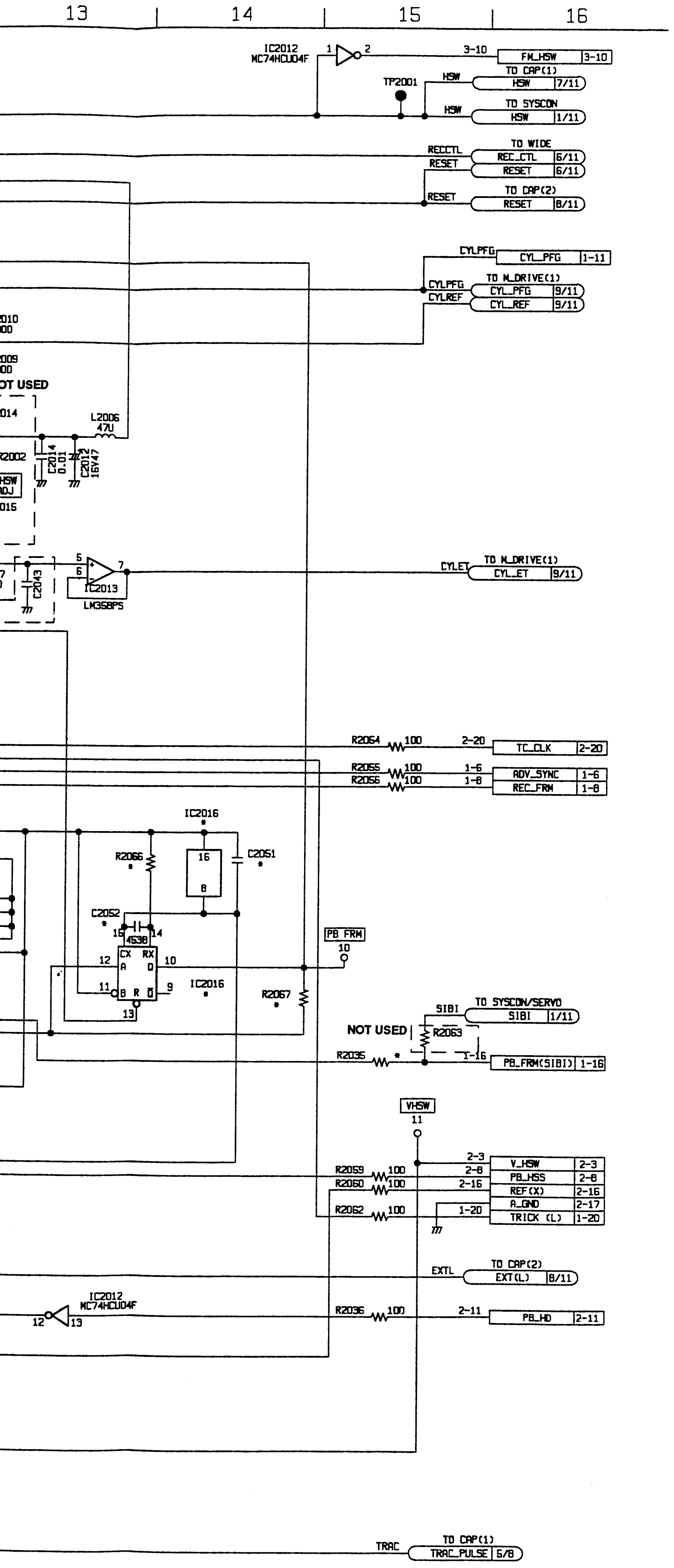
CYL SERVO SCHEMATIC DIAGRAM 4/11 (E3: Page CBA-5)



1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
FROM SUB POWER
11/11 A12V
A12V
FROM SYSCON
1/11 SCK D
1/11 SDA
SCKD
SDA
FROM SUB POWER
11/11 D_GND
DGND
L2007 YLP0064
3-15 S_VIDEO(L)
2-6 REC_HSS
D2003 MA151K
R2051
W2002
1-2 TRAC_VR(-)
1-1 TRAC_VR(+)
VR2003 100K(B)
R2021 68K
C2023 0.18(V)
TRAC FIX
FRO SUB POWER
11/11 D5V
D5V
TP2008 GND
NOT USED
IC2005
IC2006 TC4530F
IC2012 MC74HCU04F
C2022 0.01
C2009 0.01
C2047 0.1
FROM SYSCON
1/11 SW_EXT(L)
EXT
2-2 SYNC_EXT(L)
FROM SUB POWER
11/11 A5V
11/11 A_GND
A5V
AGND
L2005 47U
IC2010 LM339NS
Q2001 MSC2295
R2002 10K
R2004 33K
X2001 VSX0296
C2002 15P (NPO)
C2003 180P (NPO)
C2004 100P(NPO)
R2006 1000
C2001 6V47
L2001 47U
R2001 470
IC2002 MN1382-RTW
C2005 0.01
R2005 1000
C2007 10V33
C2006 0.1
IC2003 BA226F
J2006
J2003
J2004
IC2004 MC14052BF
R2018 10K
ODD/EVEN
R2049 10K
D2006 MA151WA
DR2005 MRN1404
R2007 1000
PG_SHIFTER
VR2001 50K(B)
R2008 2200
C2008 0.068(B)
C2010 6V47
C2011 10V22
IC2001
C2013 0.01
L2008 47U
C2017 6V47
C2018 0.01
IC2013 LM358PS
R2064 3 10K
R2010 1000
R2009 1000
R2014
VR2002
CHSW ADJ
R2015
C2048
C2014 0.01
C2012 16V47
L2006 47U
R2013 3300
C2042
R2047 3300
C2043
C2016 6V47
L2002 47U
D193.D194 ONLY
J2007
C2019 6V47
C2020 0.01
R2017 10K
R2056
R2065
IC2009
R2019 120K
C2021 1500P(B)
IC2006 TC4530F
R2027 1M
D2007 MA151K
X2002
C2029
C2030 22P(NPO)
R2028
L2004 47U
C2031 10P
IC2007 MN53015VZW
IC2008 MN53015VZW
PB_HSS
EXT_SYNC
REC_HSS
D2008 MA151K
R2030 22K
R2029 1000
IC2016
C2032 6V47
C2025 0.01
J2001
PAL_ONLY
J2002
R2066
C2051
C2052
R2067
PB_FRM
IC2014 TC7S32FTE85R
R2026
D2001
R2025
R2003
C2027 6V47
C2028 0.01
R2020 10K
R2032 47K
R2046
DR2003
J2005
C2041
C2026
C2024
R2023
R2024
C2046
W2001
C2033 16V10
R2022 1000
R2031 240(D)
D2002 MA151WA
C2034 16V10
R2033 220K
C2035 6DVR47
R2048 470
C2044 270P
C2045 270P
-INPUT SIGNAL
-OUTPUT SIGNAL

*=REFER TO THE COMPARISON CHART

Ref No.2000 Series.

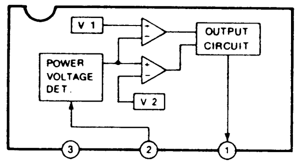

13
14
15
16
IC2012
MC74HCU04F
3-10
FW_HSW 3-10
TO CAP(1)
HSW 7/11
TP2001
HSW
TO SYSCON
HSW 1/11
TO WIDE
RECCTL
RESET
REC_CTL 6/11
RESET 6/11
TO CAP(2)
RESET 8/11
CYLPFG
CYL_PFG 1-11
TO M_DRIVE(1)
CYLPFG
CYLREF
CYL_PFG 9/11
CYL_REF 9/11
NOT USED
L2006
47U
IC2013
LM358PS
CYLET
TO M_DRIVE(1)
CYL_ET 9/11
R2064 100
2-20
TC_CLK 2-20
R2055 100
R2056 100
1-6
1-8
ADV_SYNC 1-6
REC_FRM 1-8
IC2016
R2066
C2051
C2052
4538
IC2016
PB FRM
10
R2067
SIBI
TO SYSCON/SERVO
SIBI 1/11
NOT USED
R2063
R2035
1-16
PB_FRM(SIBI) 1-16
VHSW
11
R2059 100
R2060 100
R2062 100
2-3
2-8
2-16
1-20
V_HSW 2-3
PB_HSS 2-8
REF(X) 2-16
A_GND 2-17
TRICK (L) 1-20
EXTL
TO CAP(2)
EXT(L) 8/11
IC2012
MC74HCU04F
R2036 100
2-11
PB_HD 2-11
TRAC
TO CAP(1)
TRAC_PULSE 5/8

CYL SERVO DC VOLTAGE CHART

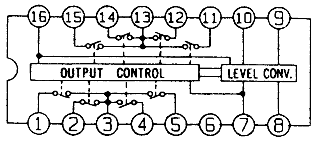
REF. NO.	IC2001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	5.0	4.6	2.5	2.5	5.1	0	0	0	0	2.5	2.6	5.1	5.1	0	3.7	0	2.5	5.1	2.6
REC	3.1	5.0	4.6	2.5	2.5	5.1	0	0	0	0	2.6	0	5.1	5.1	0	3.7	0	2.5	5.1	2.6
F.F	0	5.0	4.6	2.5	2.5	5.2	0	5.2	0	0	2.6	2.6	5.1	5.2	0	3.7	0	2.5	5.2	2.6
REF. NO.	IC2001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	5.1	0	2.6	0	0	0	0	5.1	0.5	2.4	0	0	0	0	5.1	0
REC	0	0	0	0	5.1	0	2.6	0	0	0	0	5.1	0.5	2.4	0	0	0	0	5.1	0
F.F	0	0	0	0	5.2	0	2.6	0	0	0	0	5.2	0.5	2.4	0	0	0	0	5.2	0
REF. NO.	IC2001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	5.1	0	0	5.1	0	2.5	2.5	0	0	0	0	0	5.0	0	0	1.9	5.1	0
REC	0	0	5.1	0	0	5.1	0	2.5	2.5	0	3.1	0	0	0	4.9	0	0	1.9	5.1	0
F.F	0	0	5.2	0	0	5.2	0	2.5	2.5	0	0	0	0	0	4.9	0	0	1.9	5.2	0
REF. NO.	IC2001																			
MODE	61	62	63	64																
STOP	1.1	3.1	5.1	0																
REC	1.1	3.1	5.1	0																
F.F	1.1	3.1	5.2	0																
REF. NO.	IC2002										IC2003									
MODE	V	G	O								1	2	3	4	5	6	7	8		
STOP	5.1	0	5.1								1.9	0.5	2.5	0	0	0	0	5.0		
REC	5.1	0	5.1								1.9	0.5	2.5	0	0	0	0	5.0		
F.F.	5.2	0	5.2								1.9	0.5	2.6	0	0	0	0	5.0		
REF. NO.	IC2004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	0	0	0	0	0	0	0	0	0	2.6	2.6	2.5	2.6	2.6	5.1				
REC	0	0	0	0	0	0	0	0	0	0	2.6	2.6	2.6	2.6	2.6	5.1				
F.F	0	0	0	0	0	0	0	0	5.2	0	2.6	2.6	2.6	2.6	2.6	5.2				
REF. NO.	IC2006																			
MODE	1	2	3	4	5															
STOP	2.6	2.6	0	0	5.1															
REC	2.6	2.6	0	0	5.1															
F.F	2.6	2.6	0	0	5.2															
REF. NO.	IC2007																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	0	4.6	5.1	5.1	4.8	5.1	0	0	0	0	5.1	5.1	5.1	5.1	0	0	5.1
REC	0	0	0	0	4.5	5.1	5.1	4.7	5.1	0	0	0	0	5.1	5.1	5.1	5.1	0	0	5.1
F.F	0	0	0	0	4.5	5.2	5.1	4.7	5.2	0	0	0	0	5.2	5.2	5.1	5.2	0	0	5.2
REF. NO.	IC2007																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	2.6	2.6	0	0	0	0	5.1	0	0	0	0	0	0	0	0	0	0	5.1
REC	0	0	2.5	2.6	0	0	0	0	5.1	0	0	0	0	0	0	0	0	0	0	5.1
F.F	0	0	2.5	2.6	0	0	0	0	5.2	0	0	0	0	5.2	0	0	0	0	0	5.2
REF. NO.	IC2007																			
MODE	41	42	43	44																
STOP	5.1	5.1	0	2.5																
REC	5.1	5.1	0	2.5																
F.F	5.2	5.2	0	2.5																
REF. NO.	IC2008																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	0	1.7	4.6	0	4.7	5.1	0	0	0	0	5.1	5.1	5.1	5.1	0	0	5.1
REC	0	0	0	0	2.2	4.6	0	4.7	5.1	0	0	0	0	5.1	5.1	5.1	5.1	0	0	5.1
F.F	0	0	0	0	1.9	4.6	0	4.7	5.1	0	0	0	0	5.2	5.2	5.1	5.2	0	0	5.2
REF. NO.	IC2008																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	2.6	2.6	0	0	0	0	5.1	0	0	0	0	5.1	0	0	0	0	0	5.1
REC	0	0	2.6	2.6	0	0	0	0	5.1	0	0	0	0	5.1	0	0	0	0	0	5.1
F.F	0	0	2.6	2.6	0	0	0	0	5.2	0	0	0	0	5.2	0	0	0	0	0	5.2
REF. NO.	IC2008																			
MODE	41	42	43	44																
STOP	5.1	5.1	0	2.5																
REC	5.1	5.1	0	2.5																
F.F	5.2	5.2	0	2.5																
REF. NO.	IC2010																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	0.5	5.1	5.0	0.5	2.5	0.2	2.5	0	0	0.1	0.3	0	5.1	0						
REC	0.5	5.0	5.0	0.5	2.5	0.2	2.5	0	0	0.1	0.4	0	5.1	0						
F.F	0.5	5.1	5.0	0.5	2.5	0.2	2.5	0	0	0.1	0.2	0	5.2	0						
REF. NO.	IC2012																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	2.5	2.6	2.6	2.6	2.6	2.6	0	2.4	2.3	2.5	2.4	5.1	0	5.1						
REC	2.5	2.6	2.6	2.6	2.6	2.6	0	2.4	2.3	2.5	2.4	5.1	0	5.1						
F.F	2.6	2.6	2.6	2.6	2.6	2.6	0	2.4	2.3	2.5	2.4	4.9	0	5.2						

REF. NO.	IC2013									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	0	2.4	2.4	2.4	11.7		
REC	0	0	0	0	2.4	2.4	2.4	11.7		
F.F.	0	0	0	0	2.4	2.4	2.4	11.7		
REF. NO.	IC2014									
MODE	1	2	3	4	5					
STOP	2.6	2.6	0	2.5	5.0					
REC	2.6	2.6	0	2.5	5.0					
F.F.	2.6	2.6	0	2.5	5.0					
REF. NO.	Q2001									
MODE	E	C	B							
STOP	3.2	5.1	–							
REC	3.2	5.1	–							
F.F.	3.2	5.1	–							
REF. NO.	QR2005									
MODE	E	C	B							
STOP	0	3.5	0.6							
REC	0	3.5	0.6							
F.F.	0	3.5	0.6							

IC2002
MN1382-RTW

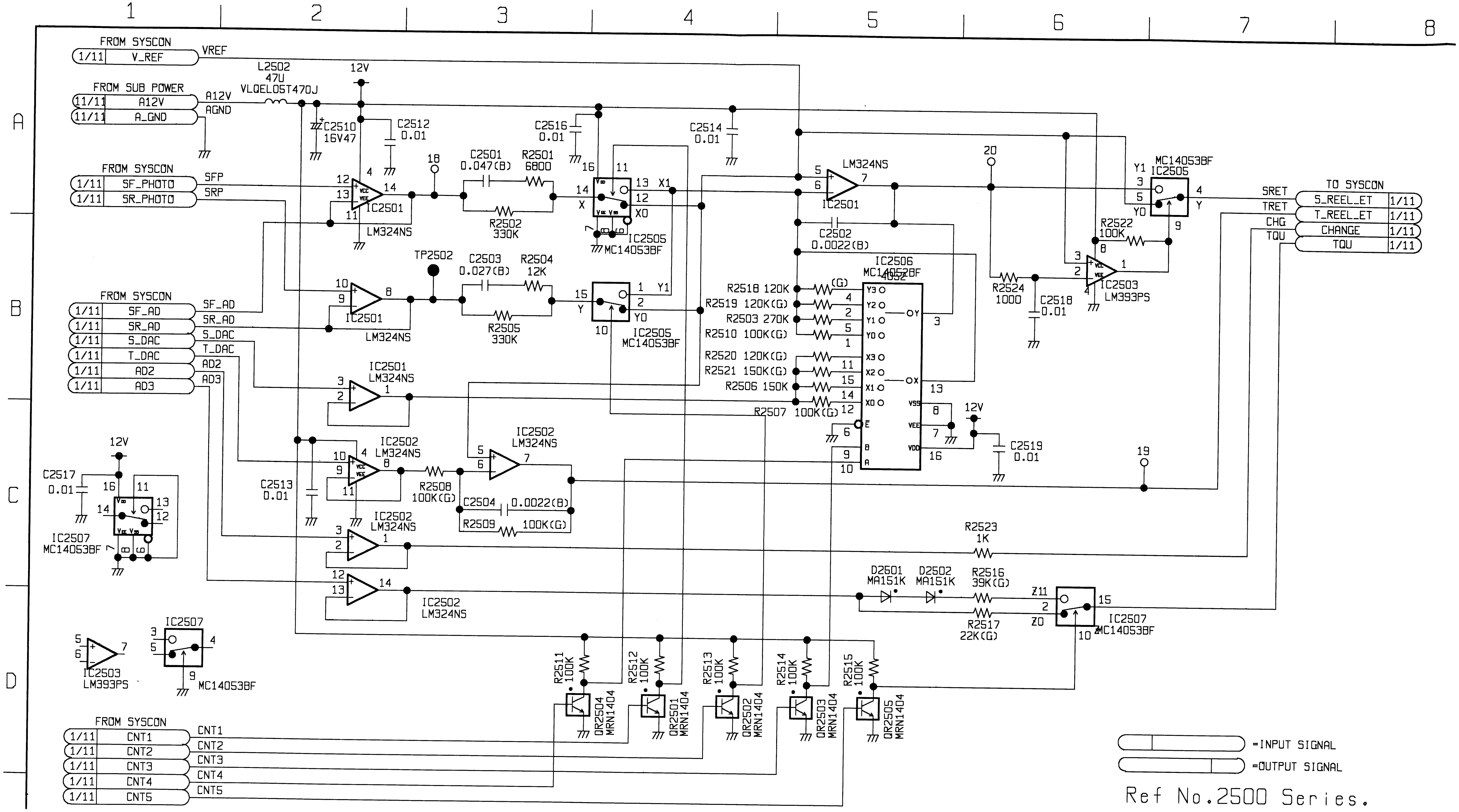

V 1
OUTPUT CIRCUIT
POWER VOLTAGE DET
V 2
3
2
1

IC2004
MC14052BF


16
15
14
13
12
11
10
9
OUTPUT CONTROL
LEVEL CONV.
1
2
3
4
5
6
7
8

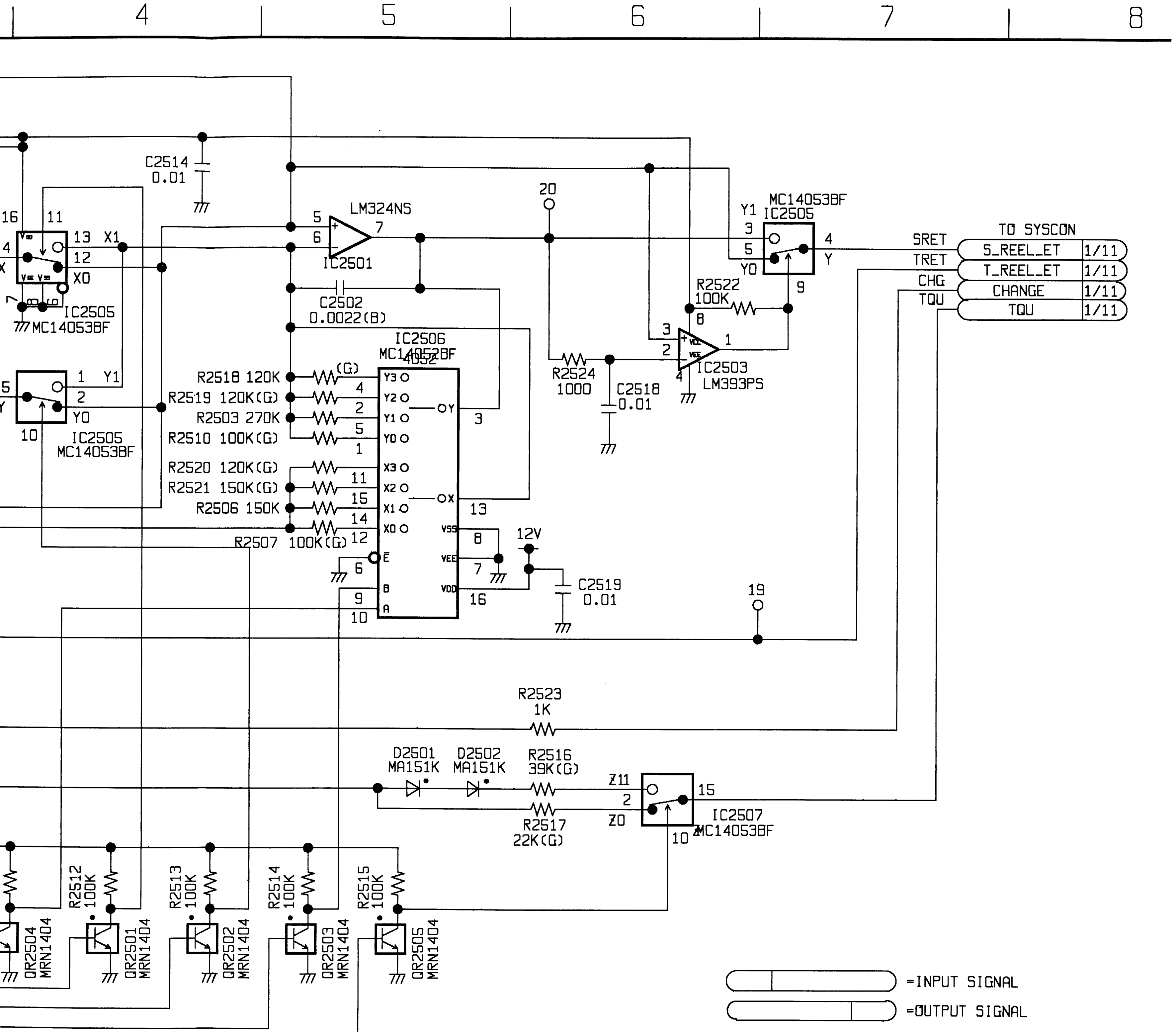
	AG-7700	AG-7600
C2024	1000P	———
C2026	50V1	———
C2029	33P(NPO)	33P(NPO)
C2041	———	———
C2046	50VR47	———
C2051	———	———
C2052	———	———
D2001	MA151K	———
IC2001	MN6742VMEG	MN6742VMEG
IC2005	———	———
J2001	———	———
J2002	0	0
J2004	0	0
J2005	———	———
IC2009	———	———
IC2016	———	———
DR2003	———	———
R2003	33K	———
R2023	220K	———
R2024	10K	———
R2025	10K	———
R2026	180K	———
R2028	5600	5600
R2035	100	100
R2046	———	———
R2051	100	———
R2065	———	———
R2066	0	0
R2067	0	0
R2068	0	0
W2001	———	0
W2002	———	0
X2002	VSX0066-D	VSX0066-D
J2007	0	0

REEL SERVO SCHEMATIC DIAGRAM 3/11 (E3: Page CBA-5)


1
2
3
4
5
6
7
8
A
B
C
D
FROM SYSCON
1/11 V_REF
VREF
FROM SUB POWER
11/11 A12V
11/11 A_GND
A12V
AGND
L2502
47U
VLQEL05T470J
12V
C2510
16V47
C2512
0.01
FROM SYSCON
1/11 SF_PHOTO
1/11 SR_PHOTO
SFP
SRP
IC2501
LM324NS
18
C2501
0.047(B)
R2501
6800
R2502
330K
C2516
0.01
IC2505
MC14053BF
X
X1
X0
C2514
0.01
LM324NS
IC2501
C2502
0.0022(B)
20
MC14053BF
IC2505
Y1
Y0
Y
R2522
100K
IC2503
LM393PS
R2524
1000
C2518
0.01
TO SYSCON
SRET
TRET
CHG
TQU
S_REEL_ET 1/11
T_REEL_ET 1/11
CHANGE 1/11
TQU 1/11
TP2502
C2503
0.027(B)
R2504
12K
R2505
330K
IC2505
MC14053BF
FROM SYSCON
1/11 SF_AD
1/11 SR_AD
1/11 S_DAC
1/11 T_DAC
1/11 AD2
1/11 AD3
SF_AD
SR_AD
S_DAC
T_DAC
AD2
AD3
IC2506
MC14052BF
4052
R2518 120K (G)
R2519 120K(G)
R2503 270K
R2510 100K(G)
R2520 120K(G)
R2521 150K(G)
R2506 150K
R2507 100K(G)
Y3 Y2 Y1 Y0 X3 X2 X1 X0
OY
OX
E
B
A
VSS
VEE
VDD
12V
C2519
0.01
IC2501
LM324NS
IC2502
LM324NS
C2513
0.01
R2508
100K(G)
C2504
0.0022(B)
R2509
100K(G)
19
C2517
0.01
IC2507
MC14053BF
R2523
1K
D2501
MA151K
D2502
MA151K
R2516
39K(G)
R2517
22K(G)
Z11
Z0
IC2507
MC14053BF
IC2503
LM393PS
IC2507
MC14053BF
R2511 100K
R2512 100K
R2513 100K
R2514 100K
R2515 100K
QR2504 MRN1404
QR2501 MRN1404
QR2502 MRN1404
QR2503 MRN1404
QR2505 MRN1404
FROM SYSCON
1/11 CNT1
1/11 CNT2
1/11 CNT3
1/11 CNT4
1/11 CNT5
CNT1
CNT2
CNT3
CNT4
CNT5
=INPUT SIGNAL
=OUTPUT SIGNAL

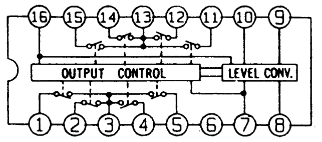
Ref No.2500 Series.

-5)


4
5
6
7
8
C2514
0.01
LM324NS
5
6
7
IC2501
C2502
0.0022(B)
20
MC14053BF
IC2505
Y1
3
5
Y0
4
Y
9
16
11
13
X1
12
X0
IC2505
MC14053BF
1
Y1
2
Y0
10
IC2505
MC14053BF
IC2506
MC14052BF
R2518 120K
R2519 120K(G)
R2503 270K
R2510 100K(G)
R2520 120K(G)
R2521 150K(G)
R2506 150K
R2507 100K(G)
(G)
Y3
Y2
Y1
Y0
X3
X2
X1
X0
Y
X
E
B
A
VSS
VEE
VDD
3
13
8
7
16
12V
C2519
0.01
R2524
1000
C2518
0.01
R2522
100K
IC2503
LM393PS
19
SRET
TRET
CHG
TQU
TO SYSCON
S_REEL_ET
T_REEL_ET
CHANGE
TQU
1/11
R2523
1K
D2501
MA151K
D2502
MA151K
R2516
39K(G)
R2517
22K(G)
Z1
Z0
15
IC2507
MC14053BF
R2512 100K
R2513 100K
R2514 100K
R2515 100K
QR2504 MRN1404
QR2501 MRN1404
QR2502 MRN1404
QR2503 MRN1404
QR2505 MRN1404
=INPUT SIGNAL
=OUTPUT SIGNAL

Ref No.2500 Series.

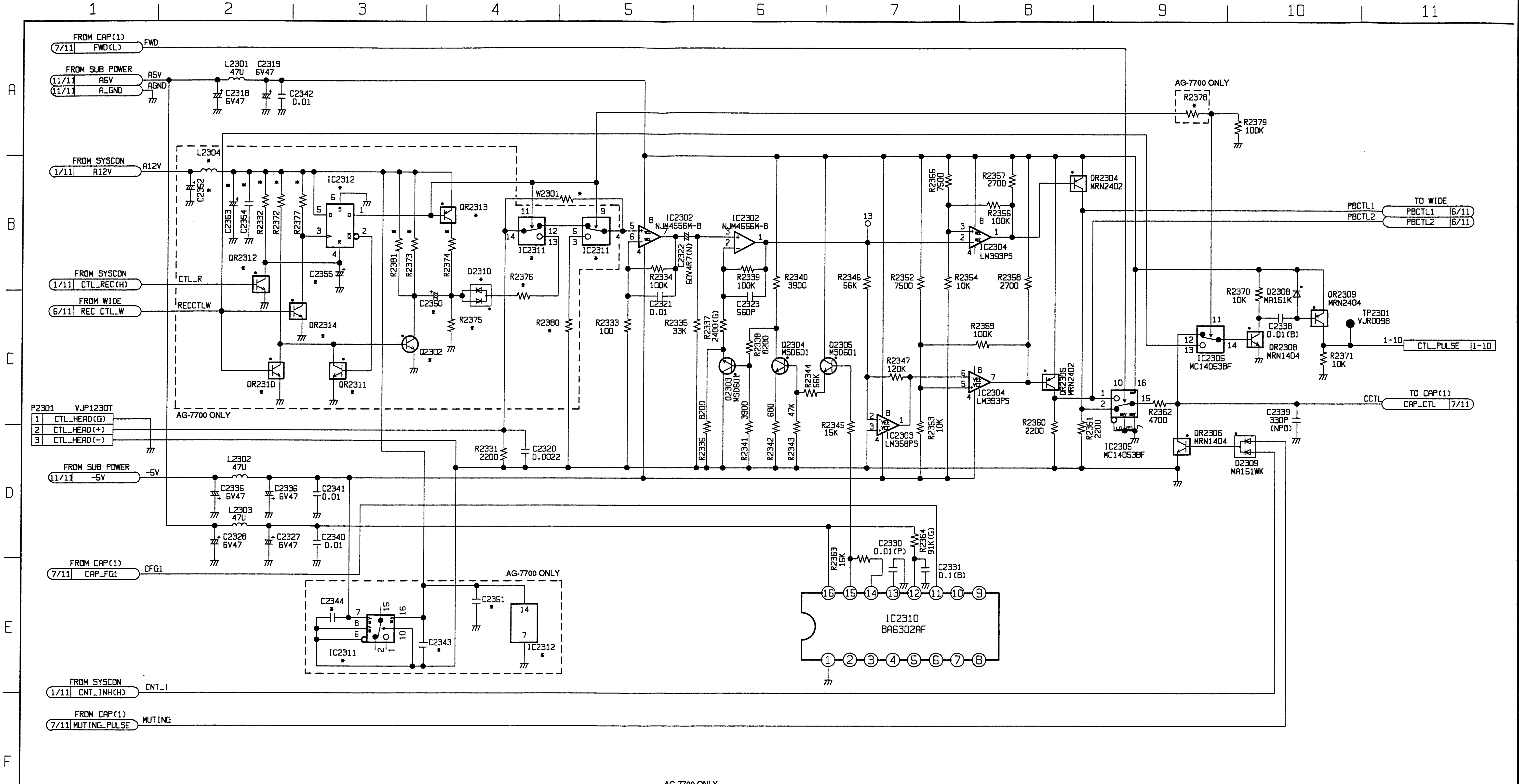
IC2506
MC14052BF


16
15
14
13
12
11
10
9
OUTPUT CONTROL
LEVEL CONV.
1
2
3
4
5
6
7
8

REEL SERVO DC VOLTAGE CHART

REF. NO.	IC2501									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	2.4	2.4	2.3	11.7	2.4	2.4	2.3	4.6	4.6	4.6
REC	2.5	2.5	2.5	11.7	2.4	2.4	2.2	4.6	4.6	4.6
F.F	2.4	2.4	2.3	11.7	2.4	2.4	2.3	0.6	0.6	0.6
REF. NO.	IC2501									
MODE	11	12	13	14						
STOP	0	4.7	4.7	4.7						
REC	0	2.4	2.4	2.4						
F.F	0	0.5	0.5	0.5						
REF. NO.	IC2502									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	1.0	1.0	1.0	11.7	2.4	2.4	2.4	2.4	2.4	2.4
REC	2.4	2.4	2.3	11.7	2.4	2.4	2.4	2.4	2.4	2.4
F.F	3.8	3.8	3.8	11.7	2.4	2.4	2.0	2.8	2.7	2.7
REF. NO.	IC2502									
MODE	11	12	13	14						
STOP	0	0.9	1.0	1.0						
REC	0	1.0	1.0	1.0						
F.F	0	0.9	1.0	1.0						
REF. NO.	IC2503									
MODE	1	2	3	4	5	6	7	8		
STOP	11.6	2.2	2.4	0	0.5	0.5	0	11.7		
REC	11.6	2.2	2.4	0	0.5	0.5	0	11.7		
F.F	11.6	2.3	2.4	0	1.5	1.5	0	11.7		
REF. NO.	IC2505									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	2.4	2.4	2.3	2.3	2.4	0	0	0	11.6	0
REC	2.4	2.4	2.2	2.2	2.4	0	0	0	11.6	0
F.F	2.4	2.4	2.3	2.3	2.4	0	0	0	11.6	0
REF. NO.	IC2505									
MODE	11	12	13	14	15	16				
STOP	0	2.4	2.4	2.4	2.4	11.7				
REC	11.6	2.4	2.4	2.4	2.4	11.7				
F.F	0	2.4	2.4	2.4	2.4	11.7				
REF. NO.	IC2506									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	2.3	2.1	2.1	2.3	2.3	0	0	0	11.6	0
REC	2.3	2.2	2.2	2.3	2.3	0	0	0	11.6	0
F.F	2.3	2.3	2.3	2.3	2.3	0	0	0	0	0
REF. NO.	IC2506									
MODE	11	12	13	14	15	16				
STOP	2.6	2.6	2.4	2.5	2.4	11.7				
REC	2.5	2.5	2.4	2.5	2.4	11.7				
F.F	2.3	2.4	2.4	2.3	2.3	11.7				
REF. NO.	IC2507									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	1.4	1.0	0.1	0.1	0.1	0	0	0	0	11.4
REC	0.8	0.1	0.1	0.1	0.1	0	0	0	0	0
F.F	0	1.2	0.1	0.1	0.1	0	0	0	0	11.6
REF. NO.	IC2507									
MODE	11	12	13	14	15	16				
STOP	0	0.1	0.1	0.1	0.1	11.7				
REC	0	0.1	0.1	0.1	0.1	11.7				
F.F	0	0.1	0.1	0.1	0.1	11.7				
REF. NO.	QR2501			QR2502			QR2503			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	4.9	0	0	4.9	0	0	4.9	
REC	0	11.6	0	0	0	4.9	0	11.6	0	
F.F.	0	0	4.9	0	0	4.9	0	0	4.9	
REF. NO.	QR2504			QR2505						
MODE	E	C	B	E	C	B				
STOP	0	0	4.9	0	11.4	0				
REC	0	0	4.9	0	0	4.9				
F.F.	0	0	4.9	0	11.6	0				

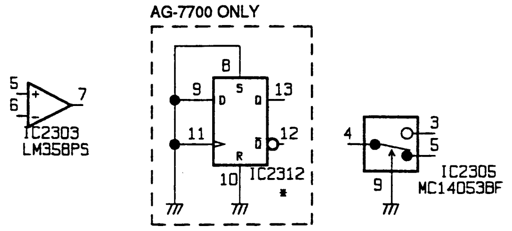
CTL AMP SCHEMATIC DIAGRAM 5/11 (E3: Page CBA-5)


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
FROM CAP(1)
7/11 FWD(L)
FWD
FROM SUB POWER
11/11 A5V
11/11 A_GND
A5V
AGND
L2301 47U
C2319 6V47
C2318 6V47
C2342 0.01
FROM SYSCON
1/11 A12V
A12V
L2304
C2352
C2353
C2354
R2332
R2372
R2377
IC2312
QR2313
QR2312
QR2314
QR2310
QR2311
Q2302
R2381
R2373
R2374
R2375
C2350
D2310
R2376
C2355
FROM SYSCON
1/11 CTL_REC(H)
CTL_R
FROM WIDE
6/11 REC CTL_W
RECCTLW
AG-7700 ONLY
W2301
IC2311
R2380
R2331 2200
C2320 0.0022
IC2302 NJM4556M-B
R2334 100K
C2321 0.01
C2322 50V4R7(N)
R2333 100
R2335 33K
R2336 8200
R2337 2400(G)
Q2303 MSD601
R2339 100K
C2323 560P
R2338 8200
R2341 3900
R2340 3900
Q2304 MSD601
R2342 680
R2343 47K
R2344 56K
Q2305 MSD601
13
R2346 56K
R2345 15K
R2347 120K
IC2303 LM358PS
R2352 7500
R2353 10K
R2355 7500
R2357 2700
R2356 100K
IC2304 LM393PS
R2354 10K
R2358 2700
R2359 100K
R2360 2200
QR2304 MRN2402
QR2305 MRN2402
R2361 2200
IC2305 MC14053BF
R2362 4700
AG-7700 ONLY
R2378
R2379 100K
TO WIDE
PBCTL1
PBCTL2
6/11
R2370 10K
D2308 MA151K
C2338 0.01(B)
QR2308 MRN1404
QR2309 MRN2404
TP2301 VJR0098
R2371 10K
1-10
CTL_PULSE
TO CAP(1)
CCTL
CAP_CTL
7/11
C2339 330P (NPO)
QR2306 MRN1404
D2309 MA151WK
P2301 VJP1230T
1 CTL_HEAD(G)
2 CTL_HEAD(+)
3 CTL_HEAD(-)
FROM SUB POWER
11/11 -5V
-5V
L2302 47U
C2335 6V47
C2336 6V47
C2341 0.01
L2303 47U
C2328 6V47
C2327 6V47
C2340 0.01
FROM CAP(1)
7/11 CAP_FG1
CFG1
AG-7700 ONLY
C2344
C2343
C2351
IC2312
R2363 15K
C2330 0.01(P)
R2364 91K(G)
C2331 0.1(B)
IC2310 BA6302AF
FROM SYSCON
1/11 CNT_INH(H)
CNT_I
FROM CAP(1)
7/11 MUTING_PULSE
MUTING

	AG-7700	AG-7600
C2343	0.01	—
C2344	0.01	—
C2350	16V47	—
C2351	0.01	—
C2352	16V47	—
C2353	16V47	—
C2354	0.01	—
C2355	50V1	—
D2310	MA153	—
IC2311	MC14053BF	—
IC2312	MC14013BF	—

	AG-7700	AG-7600
L2304	47U	—
Q2302	MSD601	—
QR2310	MRN1403	—
QR2311	MRN1404	—
QR2312	MRN1404	—
QR2313	MRN2404	—
QR2314	MRN1404	—
R2332	68K	—
R2372	15K	—
R2373	1200(1/4W)	—
R2374	4700	—

	AG-7700	AG-7600
R2375	5600	—
R2376	560	—
R2377	47K	—
R2378	150K	—
R2380	100	—
R2381	1200(1/4W)	—
W2301	—	0

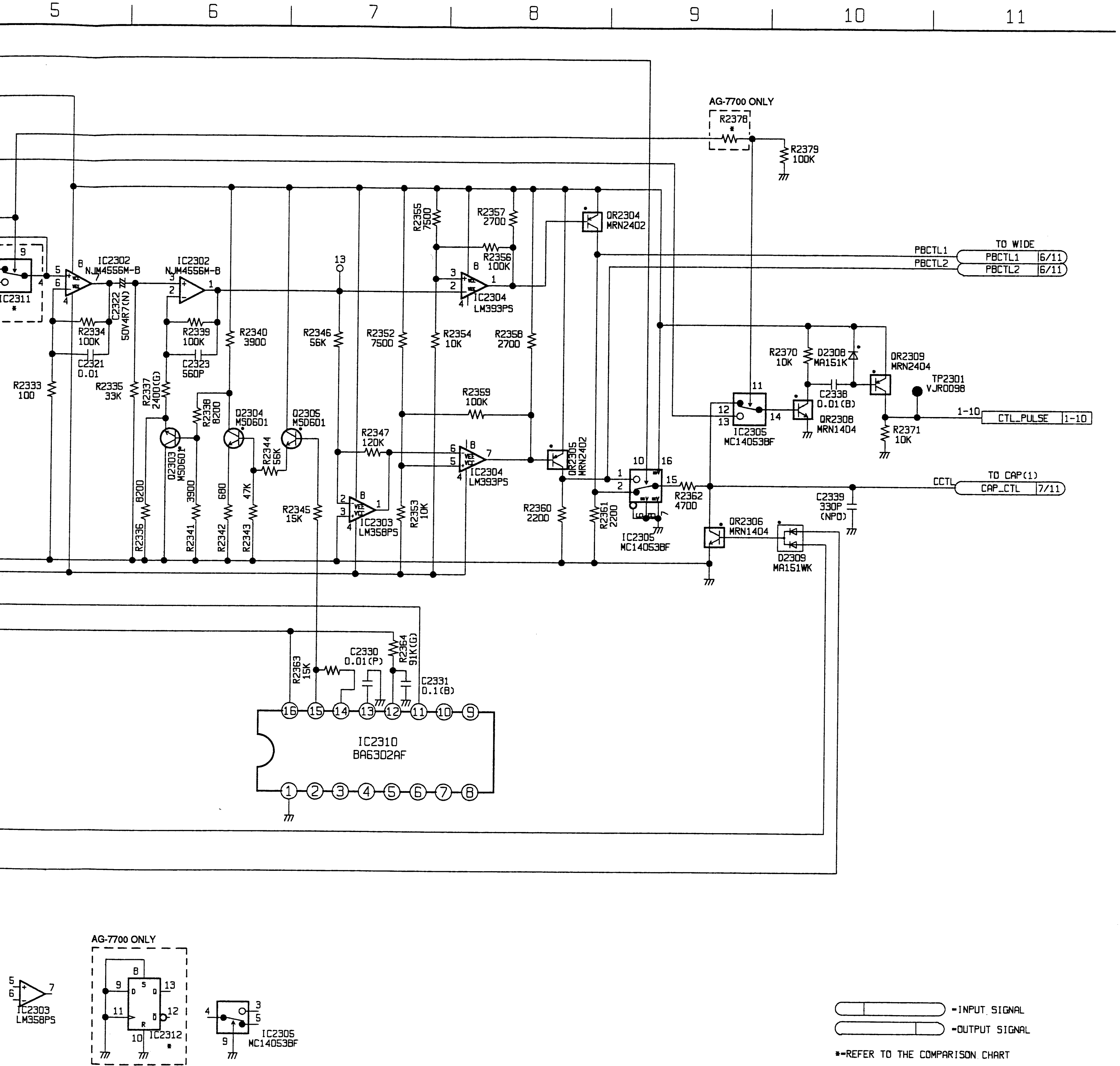

5
6
7
IC2303
LM358PS
AG-7700 ONLY
8
9
11
S
D
Q
R
13
12
10
IC2312
4
3
5
9
IC2305
MC14053BF

▭ =INPUT SIGNAL

▭ =OUTPUT SIGNAL

*=REFER TO THE COMPARISON CHART

Ref No.2300 Series.


5
6
7
8
9
10
11
AG-7700 ONLY
R2378
*
R2379
100K
R2355
7500
R2357
2700
QR2304
MRN2402
R2356
100K
IC2302
NJM4556M-B
IC2302
NJM4556M-B
13
IC2304
LM393PS
PBCTL1
PBCTL2
TO WIDE
PBCTL1 6/11
PBCTL2 6/11
IC2311
*
R2334
100K
C2322
50V4R7(N)
C2321
0.01
R2339
100K
C2323
560P
R2340
3900
R2346
56K
R2352
7500
R2354
10K
R2358
2700
R2370
10K
D2308
MA151K
QR2309
MRN2404
TP2301
VJR0098
R2333
100
R2335
33K
R2337
2400(G)
R2338
8200
Q2304
M5D601
Q2305
M5D601
R2359
100K
C2338
0.01(B)
QR2308
MRN1404
IC2305
MC14053BF
1-10
CTL_PULSE 1-10
R2371
10K
Q2303
M5D601
R2347
120K
R2344
56K
QR2305
MRN2402
IC2304
LM393PS
R2362
4700
CCTL
TO CAP(1)
CAP_CTL 7/11
C2339
330P
(NPO)
R2336
8200
R2341
3900
R2342
680
R2343
47K
R2345
15K
IC2303
LM358PS
R2353
10K
R2360
2200
R2361
2200
IC2305
MC14053BF
QR2306
MRN1404
D2309
MA151WK
R2363
15K
C2330
0.01(P)
R2364
91K(G)
C2331
0.1(B)
IC2310
BA6302AF
AG-7700 ONLY
IC2303
LM358PS
IC2312
*
IC2305
MC14053BF
-INPUT SIGNAL
-OUTPUT SIGNAL

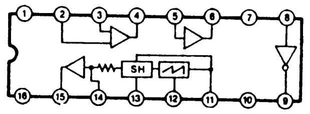
*-REFER TO THE COMPARISON CHART

Ref No.2300 Series.

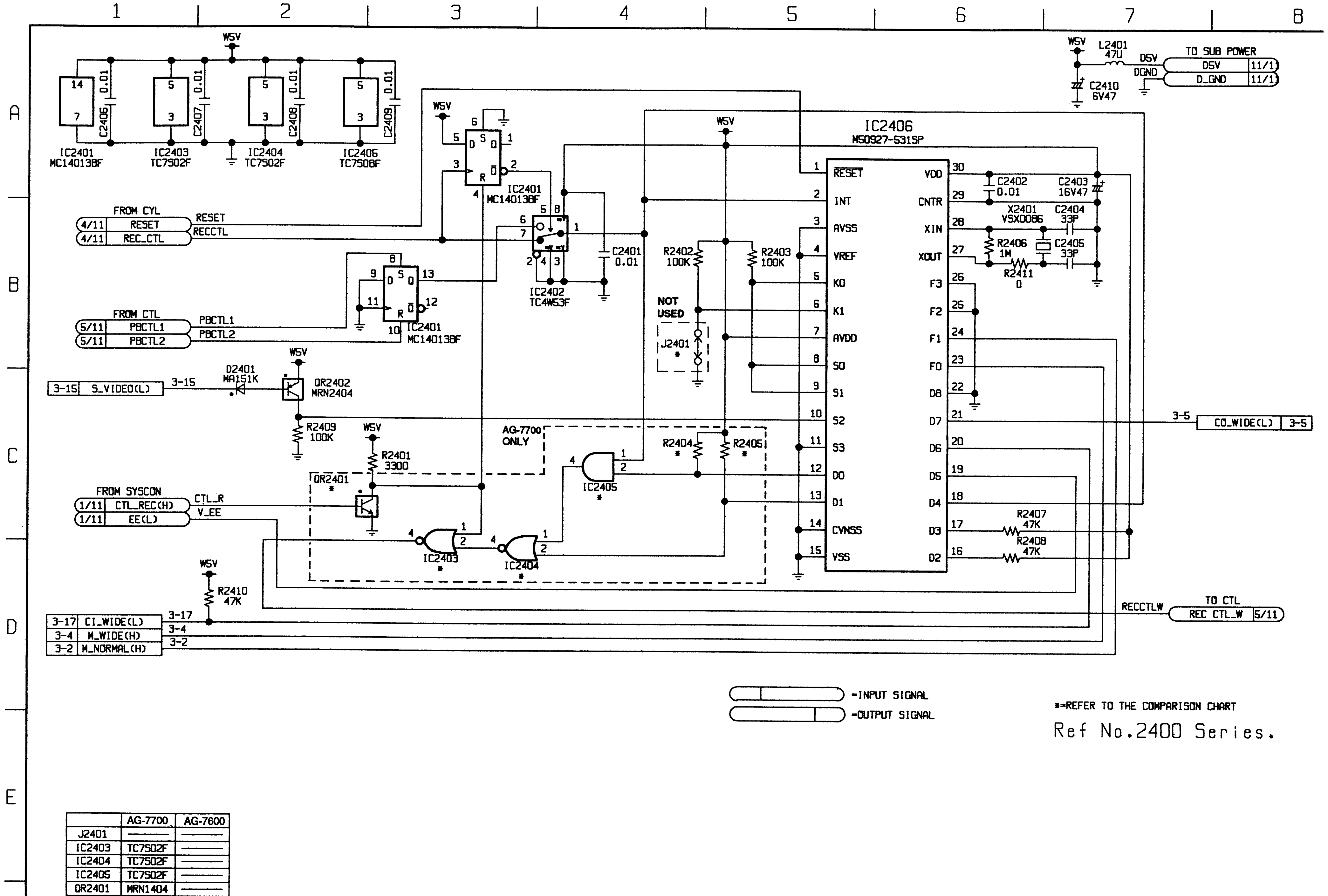
CTL AMP DC VOLTAGE CHART

REF. NO.	IC2302									IC2303								
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8	
STOP	0.1	0	0	−5.0	0	0	−0.1	5.0		−0.2	0	0	−5.0	0.3	0.2	3.9	5.0	
REC	0	0	0	−5.0	0	0	−0.1	5.0		−0.1	0	0	−5.0	0.3	0.3	3.9	5.0	
F.F.	0.6	0	0	−5.0	0	0	−0.1	5.0		−1.5	−0.1	0	−5.0	0.3	0.3	3.9	5.0	
REF. NO.	IC2304																	
MODE	1	2	3	4	5	6	7	8										
STOP	4.9	0.1	0.9	−5.0	0.9	0	4.9	5.0										
REC	4.9	0	0.9	−5.0	0.9	0	4.9	5.0										
F.F	0	0.5	0.7	−0.5	0.7	−1.4	1.4	5.0										
REF. NO.	IC2305																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.0		
REC	0	0	0.4	0.4	0.4	0	0	0	0	0	4.6	0	3.1	3.0	0	5.0		
F.F	1.9	2.7	0	0	0	0	0	0	0	0	0	2.4	0	2.4	2.6	5.0		
REF. NO.	IC2310																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	1.3	1.3	0	1.5	4.7	0	0	0.7	0.5	0	5.0	3.4	2.6	1.7	5.1		
REC	0	1.3	0.2	0	0.9	4.4	0	0	1.3	2.0	2.5	0.3	0.6	2.6	3.8	5.1		
F.F	0	1.3	0.2	0	0.9	4.4	0	0	0	0	5.1	5.0	3.4	2.6	1.7	5.0		
REF. NO.	IC2311																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	0	0	0	0	0	−5.0	0	0	0	0	0	5.9	0	0	11.7		
REC	0	0	0	0	0	0	−5.0	0	11.7	0	11.7	0	0	0	0	11.7		
F.F	0	0	0	0	0	0	−5.0	0	0	0	0	0	5.9	0	0	11.7		
REF. NO.	IC2312																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14				
STOP	0	11.6	11.6	11.6	11.7	0	0	0	0	0	0	0	11.7	11.7				
REC	11.7	0	4.6	0	11.7	0	0	0	0	0	0	0	11.7	11.7				
F.F	0	11.6	11.6	11.6	11.7	0	0	0	0	0	0	0	11.7	11.7				
REF. NO.	Q2302			Q2303			Q2304			Q2305								
MODE	E	C	B	E	C	B	E	C	B	E	C	B						
STOP	0	11.7	0	0	0	0.6	0	3.5	0.5	1.2	5.0	1.7						
REC	0	5.6	0.3	0	0	0.3	0.7	0.8	1.3	3.2	5.0	3.7						
F.F.	0	11.7	0	0	0	0.6	0	3.5	0.5	1.2	5.0	1.7						
REF. NO.	QR2304			QR2305			QR2306			QR2308			QR2309			QR2310		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.0	0	4.9	5.0	0	4.9	0	0	4.7	0	5.0	0	5.0	0	5.0	0	0	0
REC	5.0	0	4.9	5.0	0	4.9	0	0	0	0	2.0	3.0	5.0	0.1	4.9	0	0.3	3.1
F.F.	5.0	2.7	−0.2	5.0	1.9	1.4	0	2.6	0	0	1.8	2.4	5.0	2.9	3.7	0	0	0
REF. NO.	QR2311			QR2312			QR2313			QR2314								
MODE	E	C	B	E	C	B	E	C	B	E	C	B						
STOP	0	0	11.6	0	11.6	0	11.7	11.7	0	0	11.6	0						
REC	0	0.3	0	0	0	4.8	11.7	0.1	11.7	0	4.6	3.1						
F.F.	0	0	11.6	0	11.6	0	11.7	11.7	0	0	11.6	0						

IC2310
BA6302AF


1
2
3
4
5
6
7
8
16
15
14
13
12
11
10
9
SH

WIDE SCHEMATIC DIAGRAM 6/11 (E3: Page CBA-5)


1
2
3
4
5
6
7
8
A
B
C
D
E
W5V
IC2401
MC14013BF
IC2403
TC7S02F
IC2404
TC7S02F
IC2406
TC7S08F
C2406 0.01
C2407 0.01
C2408 0.01
C2409 0.01
FROM CYL
4/11 RESET
4/11 REC_CTL
RESET
RECCTL
FROM CTL
5/11 PBCTL1
5/11 PBCTL2
PBCTL1
PBCTL2
IC2402
TC4W53F
C2401 0.01
R2402 100K
R2403 100K
NOT USED
J2401
IC2406
M50927-531SP
RESET
INT
AVSS
VREF
K0
K1
AVDD
S0
S1
S2
S3
D0
D1
CVNSS
VSS
VDD
CNTR
XIN
XOUT
F3
F2
F1
F0
D8
D7
D6
D5
D4
D3
D2
C2402 0.01
C2403 16V47
X2401 VSX0086
C2404 33P
R2406 1M
C2405 33P
R2411 0
R2407 47K
R2408 47K
L2401 47U
C2410 6V47
DSV
DGND
TO SUB POWER
DSV 11/1
D_GND 11/1
3-15 S_VIDEO(L)
D2401 MA151K
QR2402 MRN2404
R2409 100K
R2401 3300
AG-7700 ONLY
QR2401
R2404
R2405
IC2405
IC2403
IC2404
FROM SYSCON
1/11 CTL_REC(H)
1/11 EE(L)
CTL_R
V_EE
R2410 47K
3-17 CI_WIDE(L)
3-4 M_WIDE(H)
3-2 M_NORMAL(H)
3-5 CO_WIDE(L) 3-5
RECCTLW
TO CTL
REC CTL_W 5/11

-INPUT SIGNAL
-OUTPUT SIGNAL

*=REFER TO THE COMPARISON CHART

Ref No.2400 Series.

	AG-7700	AG-7600
J2401	—	—
IC2403	TC7S02F	—
IC2404	TC7S02F	—
IC2405	TC7S02F	—
QR2401	MRN1404	—
R2404	47K	—
R2405	47K	—

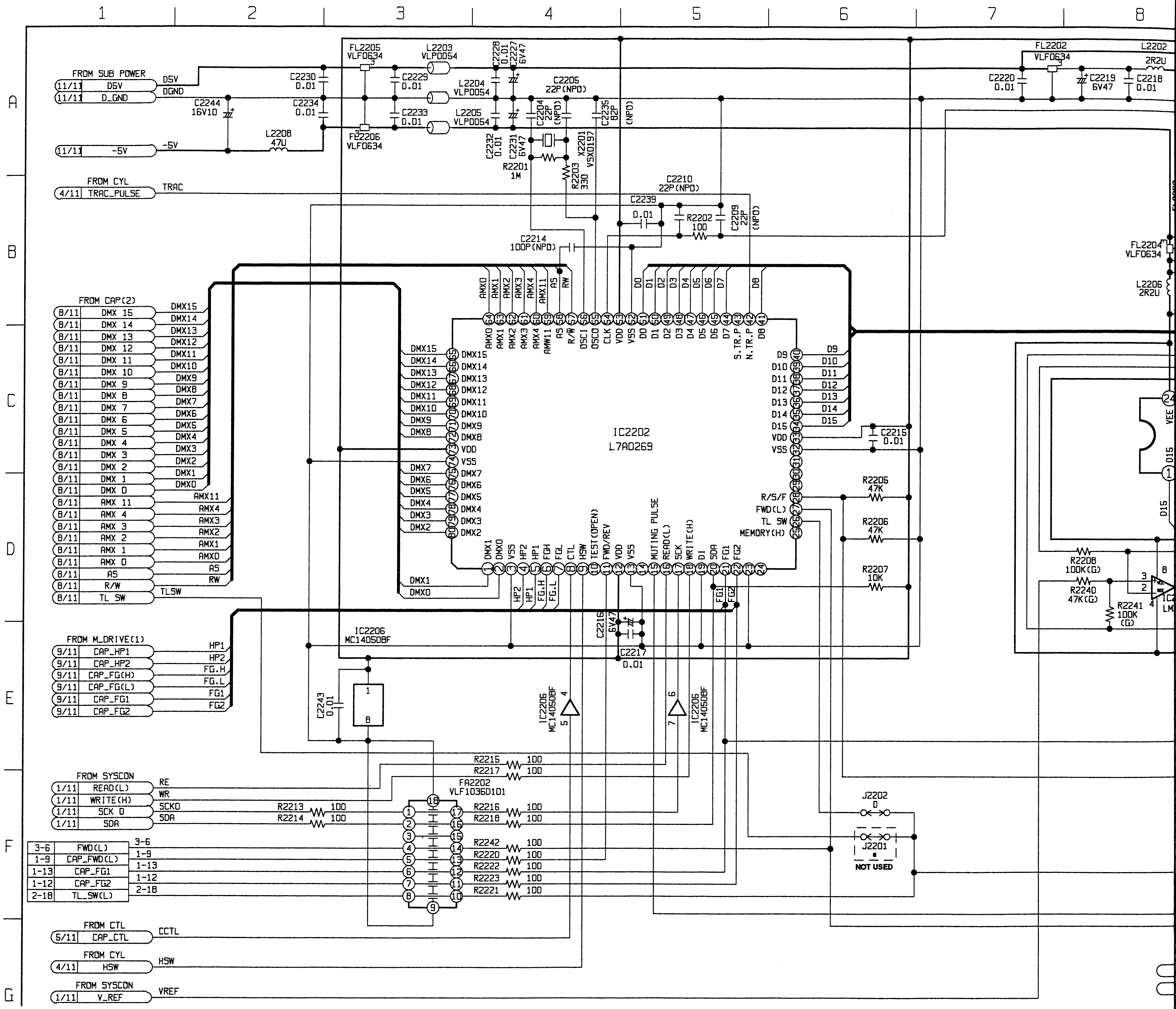
WIDE DC VOLTAGE CHART

REF. NO.	IC2401									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	5.1	0	5.1	5.1	0	0	0	0	0
REC	5.1	0	3.1	0.1	5.1	0	0	0	0	0
F.F	0	5.1	0	5.2	5.2	0	0	2.7	0	1.9
REF. NO.	IC2401									
MODE	11	12	13	14						
STOP	0	0	5.1	5.1						
REC	0	5.1	0	5.1						
F.F	0	2.0	3.1	5.1						
REF. NO.	IC2402									
MODE	1	2	3	4	5	6	7	8		
STOP	5.1	0	0	0	5.1	5.1	0	5.1		
REC	3.1	0	0	0	0	0	3.1	5.1		
F.F	3.1	0	0	0	5.2	3.2	0	5.2		
REF. NO.	IC2403									
MODE	1	2	3	4	5					
STOP	5.1	0	0	0	5.1					
REC	0.1	2.1	0	3.1	5.1					
F.F	5.2	0	0	0	5.2					
REF. NO.	IC2404									
MODE	1	2	3	4	5					
STOP	5.1	0	0	0	5.1					
REC	0.4	3.1	0	2.1	5.1					
F.F	0	5.2	0	0	5.2					
REF. NO.	IC2405									
MODE	1	2	3	4	5					
STOP	5.1	5.1	0	5.1	5.1					
REC	3.1	1.8	0	0.4	5.1					
F.F	3.2	0	0	0	5.2					
REF. NO.	IC2406									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	5.1	5.1	0	0	5.1	0	5.1	5.1	5.1	5.1
REC	5.1	3.1	0	0	5.1	5.0	5.1	5.1	5.1	5.1
F.F	5.2	3.1	0	0	5.1	5.1	5.2	5.1	5.1	5.1
REF. NO.	IC2406									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	0	5.1	0	0	0	5.1	5.1	5.1	0	5.1
REC	0	1.8	3.1	0	0	5.1	5.1	3.1	0	5.1
F.F	0	5.1	5.2	0	0	5.2	5.2	3.2	0	5.1
REF. NO.	IC2406									
MODE	21	22	23	24	25	26	27	28	29	30
STOP	4.8	0	0	0	0	0	2.5	2.5	0	5.1
REC	4.8	0	0	0	0	0	2.5	2.5	0	5.1
F.F	4.8	0	0	0	0	0	2.5	2.5	0	5.2
REF. NO.	QR2401			QR2402						
MODE	E	C	B	E	C	B				
STOP	0	5.1	0	5.1	5.1	3.7				
REC	0	0.1	4.8	5.1	5.1	3.7				
F.F.	0	5.2	0	5.1	5.1	3.7				

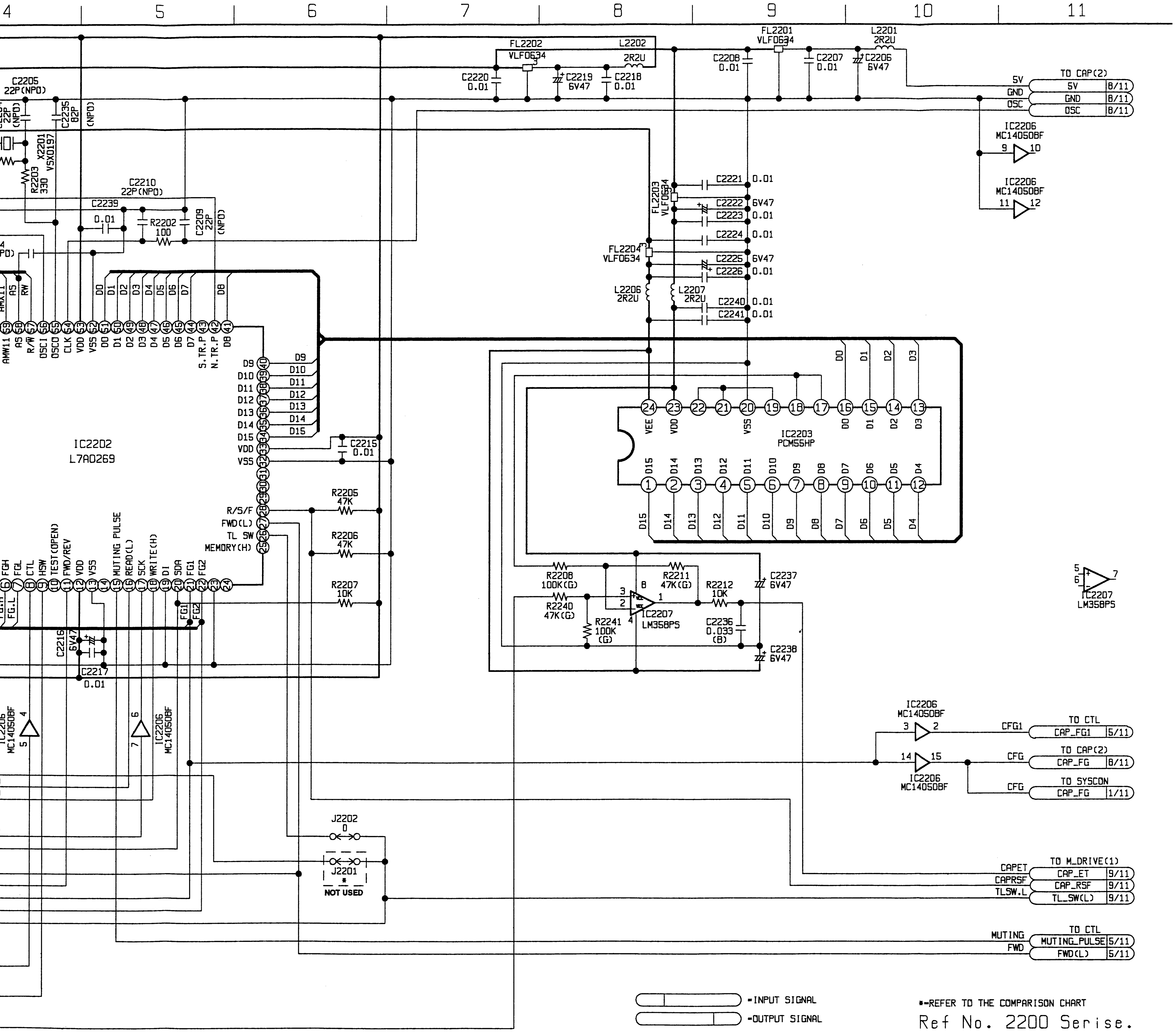
CAPSTAN SERVO-1 SCHEMATIC DIAGRAM 7/11 (E3: Page CBA-5)

WIDE DC VOLTAGE CHART

REF. NO.	IC2401									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	5.1	0	5.1	5.1	0	0	0	0	0
REC	5.1	0	3.1	0.1	5.1	0	0	0	0	0
F.F	0	5.1	0	5.2	5.2	0	0	2.7	0	1.9
REF. NO.	IC2401									
MODE	11	12	13	14						
STOP	0	0	5.1	5.1						
REC	0	5.1	0	5.1						
F.F	0	2.0	3.1	5.1						
REF. NO.	IC2402									
MODE	1	2	3	4	5	6	7	8		
STOP	5.1	0	0	0	5.1	5.1	0	5.1		
REC	3.1	0	0	0	0	0	3.1	5.1		
F.F	3.1	0	0	0	5.2	3.2	0	5.2		
REF. NO.	IC2403									
MODE	1	2	3	4	5					
STOP	5.1	0	0	0	5.1					
REC	0.1	2.1	0	3.1	5.1					
F.F	5.2	0	0	0	5.2					
REF. NO.	IC2404									
MODE	1	2	3	4	5					
STOP	5.1	0	0	0	5.1					
REC	0.4	3.1	0	2.1	5.1					
F.F	0	5.2	0	0	5.2					
REF. NO.	IC2405									
MODE	1	2	3	4	5					
STOP	5.1	5.1	0	5.1	5.1					
REC	3.1	1.8	0	0.4	5.1					
F.F	3.2	0	0	0	5.2					
REF. NO.	IC2406									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	5.1	5.1	0	0	5.1	0	5.1	5.1	5.1	5.1
REC	5.1	3.1	0	0	5.1	5.0	5.1	5.1	5.1	5.1
F.F	5.2	3.1	0	0	5.1	5.1	5.2	5.1	5.1	5.1
REF. NO.	IC2406									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	0	5.1	0	0	0	5.1	5.1	5.1	0	5.1
REC	0	1.8	3.1	0	0	5.1	5.1	3.1	0	5.1
F.F	0	5.1	5.2	0	0	5.2	5.2	3.2	0	5.1
REF. NO.	IC2406									
MODE	21	22	23	24	25	26	27	28	29	30
STOP	4.8	0	0	0	0	0	2.5	2.5	0	5.1
REC	4.8	0	0	0	0	0	2.5	2.5	0	5.1
F.F	4.8	0	0	0	0	0	2.5	2.5	0	5.2
REF. NO.	QR2401			QR2402						
MODE	E	C	B	E	C	B				
STOP	0	5.1	0	5.1	5.1	3.7				
REC	0	0.1	4.8	5.1	5.1	3.7				
F.F.	0	5.2	0	5.1	5.1	3.7				


1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
FROM SUB POWER
11/11 D5V
11/11 D_GND
11/11 -5V
D5V
DGND
-5V
FROM CYL
4/11 TRAC_PULSE
TRAC
FL2205 VLF0634
FL2206 VLF0634
L2203 VLP0054
L2204 VLP0054
L2205 VLP0054
L2208 47U
C2230 0.01
C2234 0.01
C2244 16V10
C2229 0.01
C2233 0.01
C2228 0.01
C2227 6V47
C2205 22P(NPO)
C2204 22P (NPO)
C2235 82P (NPO)
C2232 0.01
C2231 6V47
X2201 V5X0197
R2201 1M
R2203 330
C2210 22P(NPO)
C2239 0.01
R2202 100
C2209 22P (NPO)
C2214 100P(NPO)
FL2202 VLF0634
L2202 2R2U
C2220 0.01
C2219 6V47
C2218 0.01
FL2204 VLF0634
L2206 2R2U
FROM CAP(2)
8/11 DMX 15
8/11 DMX 14
8/11 DMX 13
8/11 DMX 12
8/11 DMX 11
8/11 DMX 10
8/11 DMX 9
8/11 DMX 8
8/11 DMX 7
8/11 DMX 6
8/11 DMX 5
8/11 DMX 4
8/11 DMX 3
8/11 DMX 2
8/11 DMX 1
8/11 DMX 0
8/11 AMX 11
8/11 AMX 4
8/11 AMX 3
8/11 AMX 2
8/11 AMX 1
8/11 AMX 0
8/11 AS
8/11 R/W
8/11 TL SW
TLSW
IC2202
L7A0269
AMX0 AMX1 AMX2 AMX3 AMX4 AMX11 AS R/W OSCI OSCO CLK VDD VSS D0 D1 D2 D3 D4 D5 D6 D7 S.TR.P N.TR.P D8
DMX15 DMX14 DMX13 DMX12 DMX11 DMX10 DMX9 DMX8 VDD VSS DMX7 DMX6 DMX5 DMX4 DMX3 DMX2
D9 D10 D11 D12 D13 D14 D15 VDD VSS R/S/F FWD(L) TL SW MEMORY(H)
DMX1 DMX0 VSS HP2 HP1 FGH FGL CTL HSW TEST(OPEN) FWD/REV VDD VSS MUTING PULSE READ(L) SCK WRITE(H) D1 SDA FG1 FG2
C2215 0.01
R2205 47K
R2206 47K
R2207 10K
R2208 100K(G)
R2240 47K(G)
R2241 100K (G)
VEE
D15
LM
FROM M_DRIVE(1)
9/11 CAP_HP1
9/11 CAP_HP2
9/11 CAP_FG(H)
9/11 CAP_FG(L)
9/11 CAP_FG1
9/11 CAP_FG2
HP1 HP2 FG.H FG.L FG1 FG2
IC2206 MC14050BF
C2216 6V47
C2217 0.01
C2243 0.01
FROM SYSCON
1/11 READ(L)
1/11 WRITE(H)
1/11 SCK 0
1/11 SDA
RE WR SCKO SDA
R2213 100
R2214 100
R2215 100
R2217 100
FA2202 VLF1036D101
R2216 100
R2218 100
R2242 100
R2220 100
R2222 100
R2223 100
R2221 100
J2202 0
J2201 *
NOT USED
3-6 FWD(L)
1-9 CAP_FWD(L)
1-13 CAP_FG1
1-12 CAP_FG2
2-18 TL_SW(L)
FROM CTL
5/11 CAP_CTL
CCTL
FROM CYL
4/11 HSW
HSW
FROM SYSCON
1/11 V_REF
VREF

: Page CBA-5)


4
5
6
7
8
9
10
11
C2205
22P(NPO)
C2235
82P
(NPO)
X2201
VSX0197
R2203
330
C2210
22P(NPO)
C2239
0.01
R2202
100
C2209
22P
(NPO)
FL2202
VLF0634
L2202
2R2U
C2220
0.01
C2219
6V47
C2218
0.01
FL2201
VLF0634
L2201
2R2U
C2208
0.01
C2207
0.01
C2206
6V47
5V
GND
OSC
TO CAP(2)
5V
GND
OSC
8/11
IC2206
MC14050BF
FL2203
VLF0634
C2221
C2222
C2223
C2224
C2225
C2226
C2240
C2241
0.01
6V47
FL2204
VLF0634
L2206
2R2U
L2207
2R2U
IC2202
L7A0269
AMW11
A5
R/W
OSCI
OSCO
CLK
VDD
VSS
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
S.TR.P
N.TR.P
C2215
0.01
R/S/F
FWD(L)
TL SW
MEMORY(H)
R2205
47K
R2206
47K
R2207
10K
FGH
FG.L
CTL
HSW
TEST(OPEN)
FWD/REV
MUTING PULSE
READ(L)
SCK
WRITE(H)
DI
SDA
FG1
FG2
C2216
6V47
C2217
0.01
IC2203
PCM55HP
VEE
R2208
100K(G)
R2211
47K(G)
R2212
10K
R2240
47K(G)
R2241
100K
(G)
IC2207
LM358PS
C2236
0.033
(B)
C2237
6V47
C2238
6V47
CFG1
CFG
TO CTL
CAP_FG1
5/11
TO CAP(2)
CAP_FG
8/11
TO SYSCON
CAP_FG
1/11
J2202
0
J2201
*
NOT USED
CAPET
CAPRSF
TLSW.L
TO M_DRIVE(1)
CAP_ET
CAP_RSF
TL_SW(L)
9/11
MUTING
FWD
TO CTL
MUTING_PULSE
FWD(L)
5/11
=INPUT SIGNAL
=OUTPUT SIGNAL

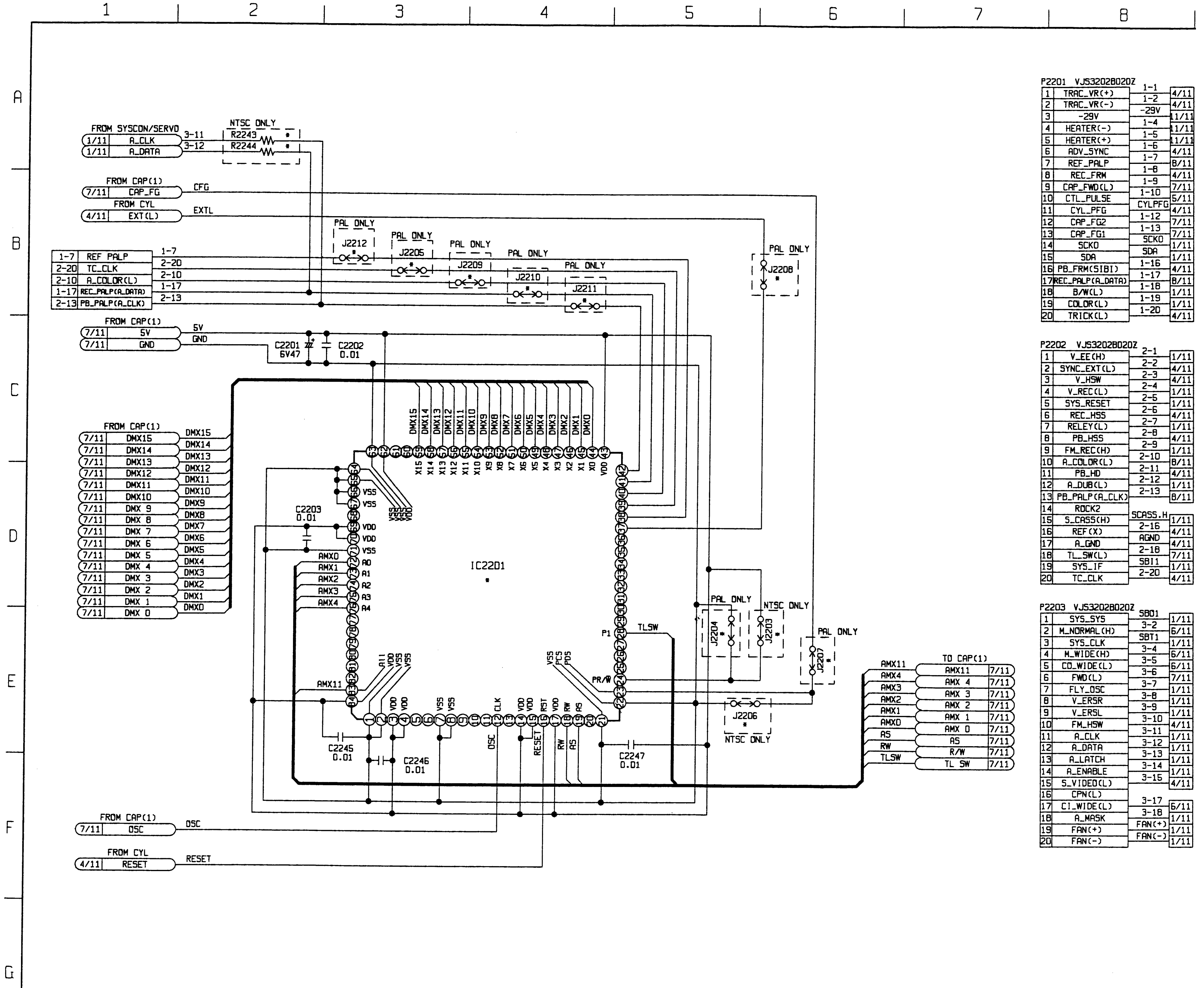
*-REFER TO THE COMPARISON CHART

Ref No. 2200 Serise.

CAPSTAN SERVO-1 DC VOLTAGE CHART

REF. NO. / MODE	IC2202									
	1	2	3	4	5	6	7	8	9	10
STOP	4.8	2.2	0	5.0	5.0	0	2.0	0	2.6	5.1
REC	4.2	3.0	0	2.6	2.6	2.5	2.5	0	2.5	5.1
F.F	2.6	2.1	0	2.6	0	5.0	2.4	2.6	2.6	5.1
REF. NO. / MODE	IC2202									
	11	12	13	14	15	16	17	18	19	20
STOP	5.1	5.1	0	0	5.1	4.5	5.0	0	0	4.6
REC	0	5.1	0	0	0	4.5	5.0	0	0	4.6
F.F	0	5.2	0	0	0	4.6	5.0	0	0	4.6
REF. NO. / MODE	IC2202									
	21	22	23	24	25	26	27	28	29	30
STOP	0	4.5	0	5.1	0	5.1	0	0	0	0
REC	2.3	2.3	0	5.1	0	0	0	0	0	0
F.F	5.0	4.5	0	5.2	0	5.1	0	0	0	0
REF. NO. / MODE	IC2202									
	31	32	33	34	35	36	37	38	39	40
STOP	0	0	5.1	5.1	0	0	5.1	5.1	5.1	0
REC	0	0	5.1	0	5.1	5.1	0	0	5.1	0
F.F	0	0	5.2	5.2	0	0	0	0	0	0
REF. NO. / MODE	IC2202									
	41	42	43	44	45	46	47	48	49	50
STOP	5.1	1.9	5.1	0	5.1	5.1	0	5.1	5.1	5.1
REC	2.9	1.9	5.1	2.7	2.7	2.6	2.7	2.6	2.7	2.6
F.F	0	1.9	5.2	0	0	0	0	0	0	0
REF. NO. / MODE	IC2202									
	51	52	53	54	55	56	57	58	59	60
STOP	0	0	5.1	1.5	2.1	2.2	5.0	3.2	0.5	4.1
REC	2.7	0	5.1	1.9	1.9	2.2	5.0	2.8	0.3	1.9
F.F	0	0	5.2	1.6	2.1	2.2	5.0	3.2	0.5	4.5
REF. NO. / MODE	IC2202									
	61	62	63	64	65	66	67	68	69	70
STOP	0.9	0.8	0.9	0.9	3.4	2.4	2.2	2.3	3.4	3.6
REC	2.1	3.6	2.8	2.4	4.2	4.4	3.7	3.5	3.6	3.0
F.F	0.8	1.0	0.5	0.3	2.4	3.7	3.7	3.7	3.7	3.3
REF. NO. / MODE	IC2202									
	71	72	73	74	75	76	77	78	79	80
STOP	4.0	2.2	5.1	0	2.9	2.8	2.8	4.3	2.8	4.3
REC	4.1	2.9	5.1	0	3.6	3.7	3.6	3.6	4.1	3.7
F.F	3.1	3.1	5.2	0	2.9	2.9	3.0	2.9	2.9	2.2
REF. NO. / MODE	IC2203									
	1	2	3	4	5	6	7	8	9	10
STOP	0	5.1	0	0	5.1	0	0	5.1	0	5.1
REC	0	5.1	5.1	0	5.1	5.1	3.8	2.2	2.6	2.7
F.F	5.2	0	0	0	0	0	0	0	0	0
REF. NO. / MODE	IC2203									
	11	12	13	14	15	16	17	18	19	20
STOP	5.1	0	0	5.1	0	0	0	0	0	0
REC	2.7	2.7	2.7	2.7	2.7	2.7	0.6	0.6	0	0
F.F	0	0	0	0	0	0	0	0	0	0
REF. NO. / MODE	IC2203									
	21	22	23	24						
STOP	0	0	5.1	−5.0						
REC	0	0	5.1	−5.0						
F.F	0	0	5.1	−5.0						
REF. NO. / MODE	IC2206									
	1	2	3	4	5	6	7	8	9	10
STOP	5.1	5.1	0	0	0	5.0	4.7	0	0	0
REC	5.1	2.5	2.3	0	0	5.0	4.7	0	0	0
F.F	5.2	5.1	0.1	2.8	2.4	5.1	4.7	0	0	0
REF. NO. / MODE	IC2206									
	11	12	13	14	15	16				
STOP	0	0	0	0	5.1	0				
REC	0	0	0	2.6	2.6	0				
F.F	0	0	0	2.6	5.1	0				
REF. NO. / MODE	IC2207									
	1	2	3	4	5	6	7	8		
STOP	2.0	1.6	1.6	−5.0	0.3	0.3	4.0	5.1		
REC	2.1	1.6	1.6	−5.0	0.3	0.3	4.0	5.1		
F.F	2.4	1.6	1.6	−5.0	0.3	0.3	4.0	5.2		

CAPSTAN SERVO-2 SCHEMATIC DIAGRAM 8/11 (E3: Page CBA-5)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
FROM SYSCON/SERVO
1/11 A_CLK 3-11
1/11 A_DATA 3-12
NTSC ONLY
R2243
R2244
FROM CAP(1)
7/11 CAP_FG CFG
FROM CYL
4/11 EXT(L) EXTL
1-7 REF PALP 1-7
2-20 TC_CLK 2-20
2-10 A_COLOR(L) 2-10
1-17 REC_PALP(A_DATA) 1-17
2-13 PB_PALP(A_CLK) 2-13
PAL ONLY
J2212
J2205
J2209
J2210
J2211
J2208
FROM CAP(1)
7/11 5V 5V
7/11 GND GND
C2201 6V47
C2202 0.01
FROM CAP(1)
7/11 DMX15 DMX15
7/11 DMX14 DMX14
7/11 DMX13 DMX13
7/11 DMX12 DMX12
7/11 DMX11 DMX11
7/11 DMX10 DMX10
7/11 DMX 9 DMX9
7/11 DMX 8 DMX8
7/11 DMX 7 DMX7
7/11 DMX 6 DMX6
7/11 DMX 5 DMX5
7/11 DMX 4 DMX4
7/11 DMX 3 DMX3
7/11 DMX 2 DMX2
7/11 DMX 1 DMX1
7/11 DMX 0 DMX0
C2203 0.01
AMX0 AMX1 AMX2 AMX3 AMX4
AMX11
IC2201
VSS VDD A0 A1 A2 A3 A4
X15 X14 X13 X12 X11 X10 X9 X8 X7 X6 X5 X4 X3 X2 X1 X0
P1 TLSW
PR/W
A11 VDD VSS VSS PCS PDS
CLK OSC RESET RST RW AS
C2245 0.01
C2246 0.01
C2247 0.01
PAL ONLY J2204
NTSC ONLY J2203
PAL ONLY J2207
J2206 NTSC ONLY
TO CAP(1)
AMX11 7/11
AMX 4 7/11
AMX 3 7/11
AMX 2 7/11
AMX 1 7/11
AMX 0 7/11
AS 7/11
R/W 7/11
TL SW 7/11
FROM CAP(1)
7/11 OSC OSC
FROM CYL
4/11 RESET RESET
P2201 VJS3202B020Z
1 TRAC_VR(+) 1-1 4/11
2 TRAC_VR(-) 1-2 4/11
3 -29V -29V 11/11
4 HEATER(-) 1-4 11/11
5 HEATER(+) 1-5 11/11
6 ADV_SYNC 1-6 4/11
7 REF_PALP 1-7 8/11
8 REC_FRM 1-8 4/11
9 CAP_FWD(L) 1-9 7/11
10 CTL_PULSE 1-10 5/11
11 CYL_PFG CYLPFG 4/11
12 CAP_FG2 1-12 7/11
13 CAP_FG1 1-13 7/11
14 SCKO SCKO 1/11
15 SDA SDA 1/11
16 PB_FRM(SIBI) 1-16 4/11
17 REC_PALP(A_DATA) 1-17 8/11
18 B/W(L) 1-18 1/11
19 COLOR(L) 1-19 1/11
20 TRICK(L) 1-20 4/11
P2202 VJS3202B020Z
1 V_EE(H) 2-1 1/11
2 SYNC_EXT(L) 2-2 4/11
3 V_HSW 2-3 4/11
4 V_REC(L) 2-4 1/11
5 SYS_RESET 2-5 1/11
6 REC_HSS 2-6 4/11
7 RELEY(L) 2-7 1/11
8 PB_HSS 2-8 4/11
9 FM_REC(H) 2-9 1/11
10 A_COLOR(L) 2-10 8/11
11 PB_HD 2-11 4/11
12 A_DUB(L) 2-12 1/11
13 PB_PALP(A_CLK) 2-13 8/11
14 ROCK2
15 S_CASS(H) SCASS.H 1/11
16 REF(X) 2-16 4/11
17 A_GND AGND 4/11
18 TL_SW(L) 2-18 7/11
19 SYS_IF SBI1 1/11
20 TC_CLK 2-20 4/11
P2203 VJS3202B020Z
1 SYS_SYS SBO1 1/11
2 M_NORMAL(H) 3-2 6/11
3 SYS_CLK SBT1 1/11
4 M_WIDE(H) 3-4 6/11
5 CO_WIDE(L) 3-5 6/11
6 FWD(L) 3-6 7/11
7 FLY_OSC 3-7 1/11
8 V_ERSR 3-8 1/11
9 V_ERSL 3-9 1/11
10 FM_HSW 3-10 4/11
11 A_CLK 3-11 1/11
12 A_DATA 3-12 1/11
13 A_LATCH 3-13 1/11
14 A_ENABLE 3-14 1/11
15 S_VIDEO(L) 3-15 4/11
16 CPN(L)
17 CI_WIDE(L) 3-17 6/11
18 A_MASK 3-18 1/11
19 FAN(+) FAN(+) 1/11
20 FAN(-) FAN(-) 1/11

	AG-7700	AG-7600
IC2201	MN19041VMCX	MN19041VMCX
J2203	———	———
J2204	0	0
J2205	0	0
J2206	———	———
J2207	0	0
J2208	0	0
J2209	0	0
J2210	0	0
J2211	0	0
J2212	0	0
R2243	———	———
R2244	———	———

⊂⊃ =INPUT SIGNAL

⊂⊃ =OUTPUT SIGNAL

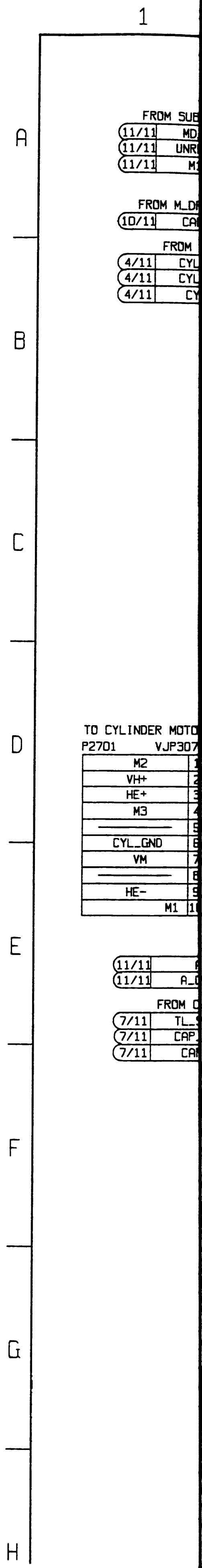
*=REFER TO THE COMPARISON CHART

Ref No.2200 Series.

CAPSTAN SERVO-2 DC VOLTAGE CHART

REF. NO.	IC2201									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	5.1	5.1	0	0	0	0	3.1	2.4
REC	0	0	5.1	5.1	0	0	0	0	3.1	2.4
F.F	0	0	5.2	5.2	0	0	0	0	3.1	2.2
REF. NO.	IC2201									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	2.6	2.1	2.4	5.1	5.1	5.1	5.1	4.9	3.1	4.2
REC	2.6	2.1	2.4	5.1	5.1	5.1	5.1	4.9	2.8	4.2
F.F	2.7	2.1	2.4	5.2	5.2	5.2	5.2	5.0	3.2	4.3
REF. NO.	IC2201									
MODE	21	22	23	24	25	26	27	28	29	30
STOP	0	0	0	0	0	0	0.1	0.1	0.1	0.1
REC	0	0	2.5	0	5.1	0	0.1	0.1	0.1	0.1
F.F	0	0	5.1	0	0	0	0.2	0.2	0.2	0.2
REF. NO.	IC2201									
MODE	31	32	33	34	35	36	37	38	39	40
STOP	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	2.6	0.1
REC	0.1	0.1	0.1	0.1	0.1	0.1	5.0	0.1	2.6	0.1
F.F	0.1	0.1	0.1	0.1	0.1	0.1	5.1	0.2	2.6	0.1
REF. NO.	IC2201									
MODE	41	42	43	44	45	46	47	48	49	50
STOP	2.4	0	5.1	2.5	4.7	4.3	3.0	4.3	3.0	3.0
REC	2.5	0	5.1	3.0	4.3	3.6	4.0	3.6	3.7	3.7
F.F	2.4	0	5.2	3.7	2.9	2.9	2.9	2.9	2.9	2.9
REF. NO.	IC2201									
MODE	51	52	53	54	55	56	57	58	59	60
STOP	3.0	2.5	4.0	3.8	3.6	2.6	2.5	2.7	3.6	5.1
REC	3.5	2.9	4.0	3.0	3.7	3.5	3.7	4.2	4.2	5.1
F.F	2.9	3.1	3.1	3.3	3.7	2.2	4.0	3.7	3.9	5.2
REF. NO.	IC2201									
MODE	61	62	63	64	65	66	67	68	69	70
STOP	5.1	5.1	0	0	0	0	0	5.1	5.1	5.1
REC	5.1	5.1	0	0	0	0	0	5.1	5.1	5.1
F.F	5.2	5.2	0	0	0	0	0	5.2	5.2	5.2
REF. NO.	IC2201									
MODE	71	72	73	74	75	76	77	78	79	80
STOP	0	0.9	0.9	0.8	0.9	4.1	4.6	3.8	4.7	4.7
REC	0	2.4	2.8	3.7	2.1	1.9	1.2	4.3	4.6	4.6
F.F	0	0.3	0.4	1.0	0.8	4.5	4.7	3.9	4.7	4.7
REF. NO.	IC2201									
MODE	81	82	83	84						
STOP	0	0	0.5	5.1						
REC	0	0	0.5	5.1						
F.F	0	0	0.5	5.2						

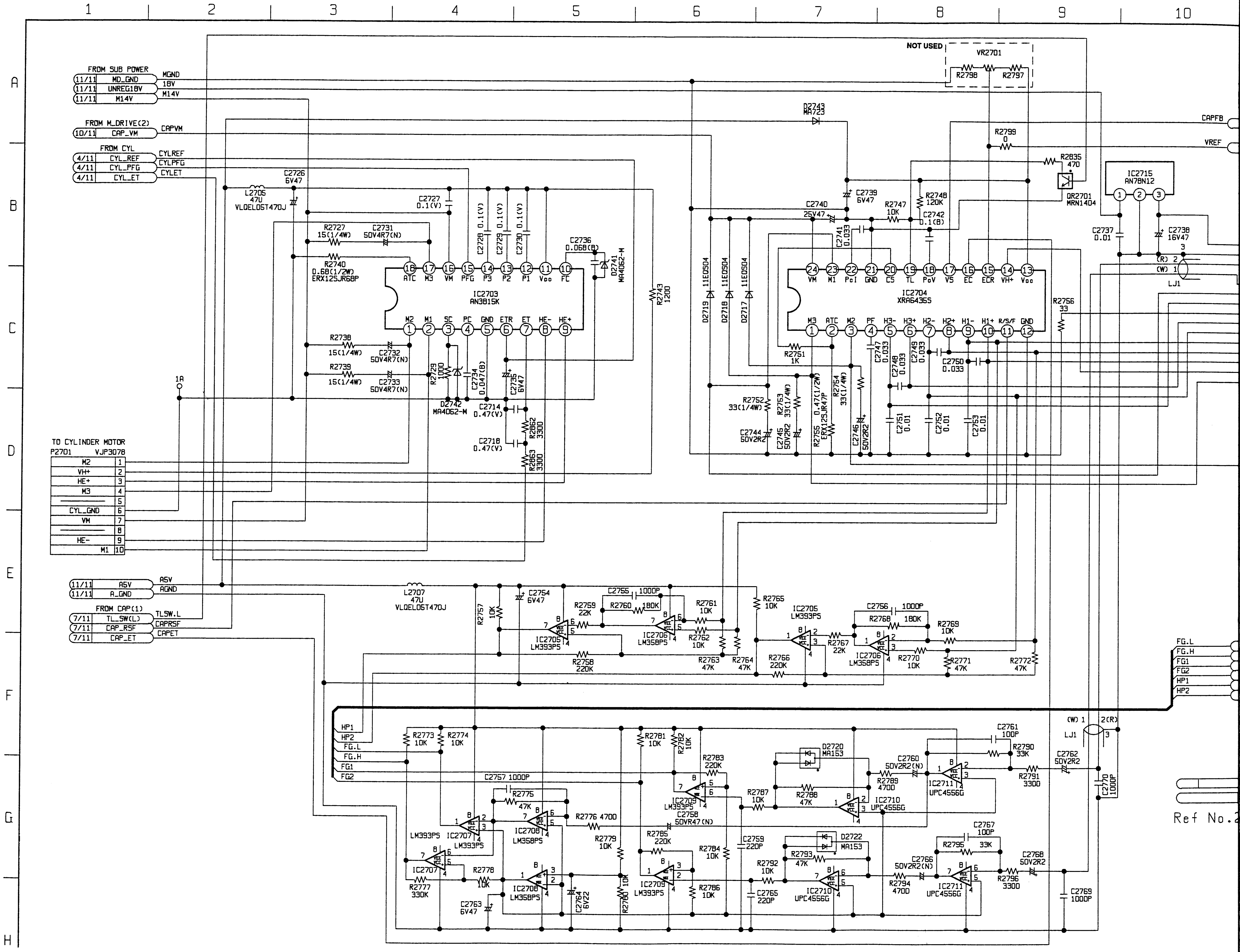
MOTOR DR


1
A
B
C
D
E
F
G
H
FROM SUB
11/11 MD
11/11 UNR
11/11 M
FROM M_DR
10/11 CA
FROM
4/11 CYL
4/11 CYL
4/11 CY
TO CYLINDER MOTO
P2701 VJP307
M2
VH+
HE+
M3
CYL_GND
VM
HE-
M1
11/11
11/11 A_
FROM C
7/11 TL_
7/11 CAP
7/11 CAF

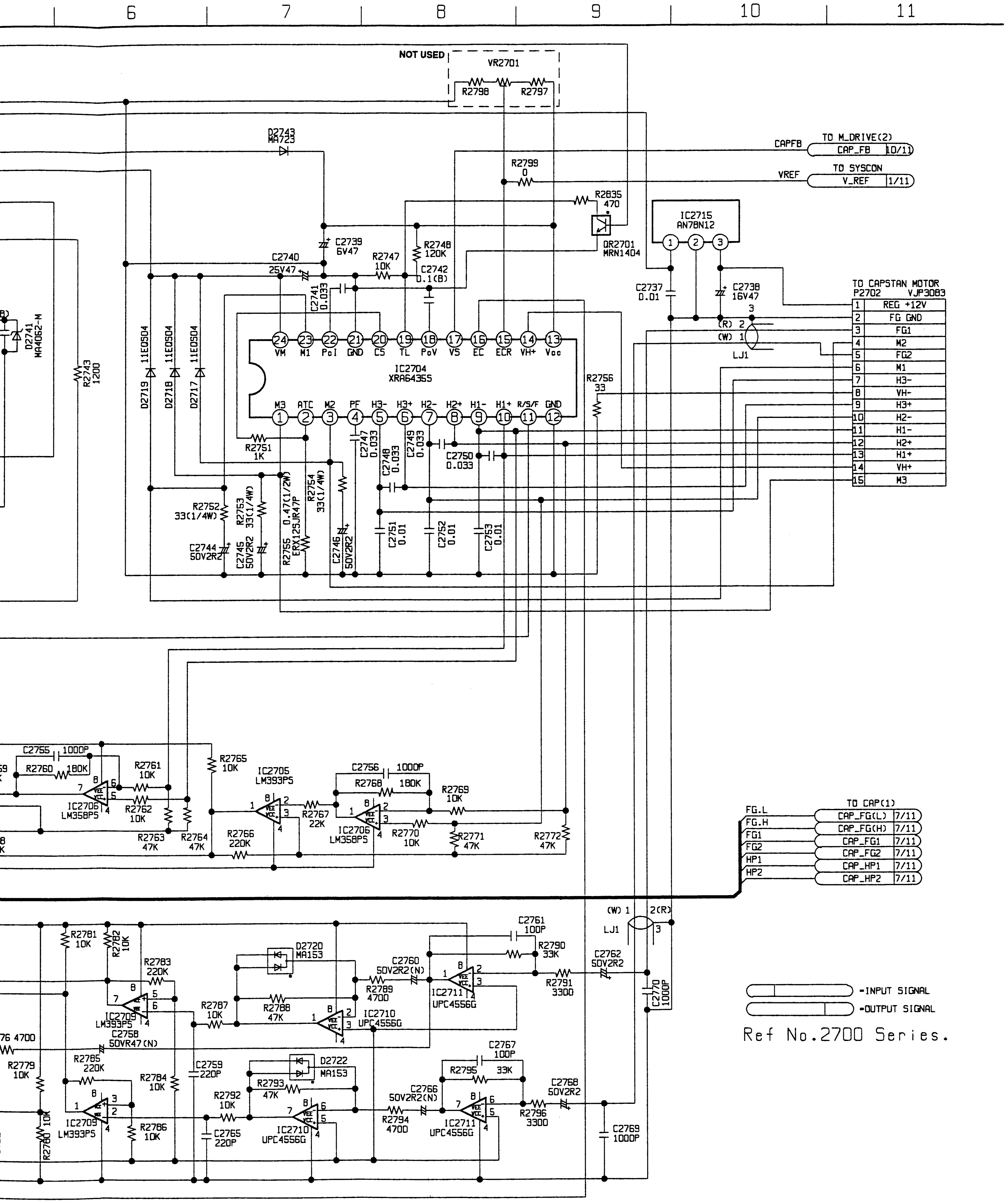
N SERVO-2 DC VOLTAGE CHART

IC2201								
2	3	4	5	6	7	8	9	10
0	5.1	5.1	0	0	0	0	3.1	2.4
0	5.1	5.1	0	0	0	0	3.1	2.4
0	5.2	5.2	0	0	0	0	3.1	2.2
IC2201								
12	13	14	15	16	17	18	19	20
2.1	2.4	5.1	5.1	5.1	5.1	4.9	3.1	4.2
2.1	2.4	5.1	5.1	5.1	5.1	4.9	2.8	4.2
2.1	2.4	5.2	5.2	5.2	5.2	5.0	3.2	4.3
IC2201								
22	23	24	25	26	27	28	29	30
0	0	0	0	0	0.1	0.1	0.1	0.1
0	2.5	0	5.1	0	0.1	0.1	0.1	0.1
0	5.1	0	0	0	0.2	0.2	0.2	0.2
IC2201								
32	33	34	35	36	37	38	39	40
0.1	0.1	0.1	0.1	0.1	0.5	0.1	2.6	0.1
0.1	0.1	0.1	0.1	0.1	5.0	0.1	2.6	0.1
0.1	0.1	0.1	0.1	0.1	5.1	0.2	2.6	0.1
IC2201								
42	43	44	45	46	47	48	49	50
0	5.1	2.5	4.7	4.3	3.0	4.3	3.0	3.0
0	5.1	3.0	4.3	3.6	4.0	3.6	3.7	3.7
0	5.2	3.7	2.9	2.9	2.9	2.9	2.9	2.9
IC2201								
52	53	54	55	56	57	58	59	60
2.5	4.0	3.8	3.6	2.6	2.5	2.7	3.6	5.1
2.9	4.0	3.0	3.7	3.5	3.7	4.2	4.2	5.1
3.1	3.1	3.3	3.7	2.2	4.0	3.7	3.9	5.2
IC2201								
62	63	64	65	66	67	68	69	70
5.1	0	0	0	0	0	5.1	5.1	5.1
5.1	0	0	0	0	0	5.1	5.1	5.1
5.2	0	0	0	0	0	5.2	5.2	5.2
IC2201								
72	73	74	75	76	77	78	79	80
0.9	0.9	0.8	0.9	4.1	4.6	3.8	4.7	4.7
2.4	2.8	3.7	2.1	1.9	1.2	4.3	4.6	4.6
0.3	0.4	1.0	0.8	4.5	4.7	3.9	4.7	4.7
IC2201								
82	83	84						
0	0.5	5.1						
0	0.5	5.1						
0	0.5	5.2						

MOTOR DRIVE-1 SCHEMATIC DIAGRAM 9/11 (E3: Page CBA-5)


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
H
FROM SUB POWER
11/11 MD_GND
11/11 UNREG18V
11/11 M14V
MGND
18V
M14V
FROM M_DRIVE(2)
10/11 CAP_VM
CAPVM
FROM CYL
4/11 CYL_REF
4/11 CYL_PFG
4/11 CYL_ET
CYLREF
CYLPFG
CYLET
L2705 47U VLQEL0ST470J
C2726 6V47
C2727 0.1(V)
C2728 0.1(V)
C2729 0.1(V)
C2730 0.1(V)
R2727 15(1/4W)
C2731 50V4R7(N)
R2740 0.68(1/2W) ERX12SJR68P
C2736 0.068(B)
D2741 MA4062-M
IC2703 AN3815K
ATC
M3
VM
PFG
P3
P2
P1
Vcc
FC
M2
M1
SC
PC
GND
ETR
ET
HE-
HE+
R2738 15(1/4W)
C2732 50V4R7(N)
R2739 15(1/4W)
C2733 50V4R7(N)
R2729 1000
C2734 0.047(B)
C2735 6V47
D2742 MA4062-M
C2714 0.47(V)
R2862 3300
C2718 0.47(V)
R2863 3300
R2743 1200
1A
TO CYLINDER MOTOR
P2701 VJP3078
M2 1
VH+ 2
HE+ 3
M3 4
5
CYL_GND 6
VM 7
8
HE- 9
M1 10
11/11 A5V
11/11 A_GND
A5V
AGND
FROM CAP(1)
7/11 TL_SW(L)
7/11 CAP_RSF
7/11 CAP_ET
TLSW.L
CAPRSF
CAPET
NOT USED
VR2701
R2798
R2797
D2743 MA723
R2799 0
R2835 470
QR2701 MRN1404
CAPFB
VREF
IC2715 AN78N12
C2737 0.01
C2738 16V47
(R) 2
(W) 1
3
LJ1
C2739 6V47
C2740 25V47
R2747 10K
R2748 120K
C2742 0.1(B)
C2741 0.033
D2719 11ES04
D2718 11ES04
D2717 11ES04
IC2704 XRA6435S
VM
M1
PcI
GND
CS
TL
PoV
VS
EC
ECR
VH+
Vcc
M3
ATC
M2
PF
H3-
H3+
H2-
H2+
H1-
H1+
R/S/F
GND
R2756 33
R2751 1K
C2747 0.033
C2748 0.033
C2749 0.033
C2750 0.033
R2752 33(1/4W)
R2753 33(1/4W)
R2754 33(1/4W)
R2755 0.47(1/2W) ERX12SJR47P
C2744 50V2R2
C2745 50V2R2
C2746 50V2R2
C2751 0.01
C2752 0.01
C2753 0.01
L2707 47U VLQEL0ST470J
R2757 10K
C2754 6V47
C2755 1000P
R2759 22K
R2760 180K
R2761 10K
R2762 10K
R2763 47K
R2764 47K
R2765 10K
IC2705 LM393PS
IC2706 LM358PS
R2758 220K
R2766 220K
R2767 22K
C2756 1000P
R2768 180K
R2769 10K
R2770 10K
R2771 47K
R2772 47K
FG.L
FG.H
FG1
FG2
HP1
HP2
R2773 10K
R2774 10K
C2757 1000P
R2775 47K
R2776 4700
R2777 330K
R2778 10K
R2779 10K
R2780 10K
IC2707 LM393PS
IC2708 LM358PS
C2763 6V47
C2764 6V22
R2781 10K
R2782 10K
R2783 220K
R2784 10K
R2785 220K
R2786 10K
IC2709 LM393PS
C2758 50VR47(N)
C2759 220P
C2765 220P
R2787 10K
R2788 47K
D2720 MA153
IC2710 UPC4556G
R2789 4700
C2760 50V2R2(N)
IC2711 UPC4556G
C2761 100P
R2790 33K
R2791 3300
C2762 50V2R2
C2770 1000P
(W) 1
2(R)
LJ1
3
D2722 MA153
R2792 10K
R2793 47K
R2794 4700
C2766 50V2R2(N)
C2767 100P
R2795 33K
R2796 3300
C2768 50V2R2
C2769 1000P
VEE
VCC
Ref No.2

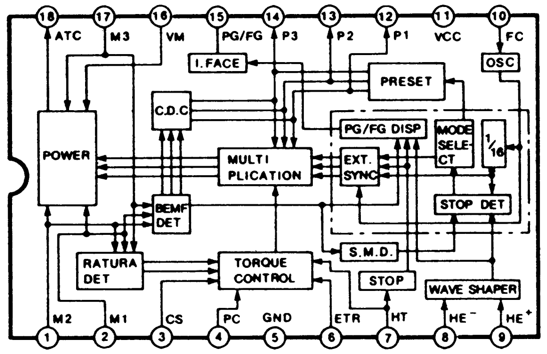
A-5)


6
7
8
9
10
11
NOT USED
VR2701
R2798
R2797
D2743
MA723
CAPFB
TO M_DRIVE(2)
CAP_FB
10/11
R2799
0
VREF
TO SYSCON
V_REF
1/11
R2835
470
QR2701
MRN1404
IC2715
AN78N12
C2739
6V47
R2748
120K
C2742
0.1(B)
C2740
25V47
R2747
10K
C2741
0.033
C2737
0.01
C2738
16V47
TO CAPSTAN MOTOR
P2702 VJP3083
1 REG +12V
2 FG GND
3 FG1
4 M2
5 FG2
6 M1
7 H3-
8 VH-
9 H3+
10 H2-
11 H1-
12 H2+
13 H1+
14 VH+
15 M3
(R) 2
(W) 1
LJ1
VM
M1
PoI
GND
CS
TL
PoV
VS
EC
ECR
VH+
Vcc
IC2704
XRA6435S
M3
ATC
M2
PF
H3-
H3+
H2-
H2+
H1-
H1+
R/S/F
GND
R2756
33
D2741
MA4062-M
R2743
1200
D2719
11EQS04
D2718
11EQS04
D2717
11EQS04
R2751
1K
C2747
0.033
C2748
0.033
C2749
0.033
C2750
0.033
R2752
33(1/4W)
R2753
33(1/4W)
R2754
33(1/4W)
R2755
0.47(1/2W)
ERX12SJR47P
C2744
50V2R2
C2745
50V2R2
C2746
50V2R2
C2751
0.01
C2752
0.01
C2753
0.01
C2755
1000P
R2760
180K
R2761
10K
R2762
10K
IC2706
LM358PS
R2763
47K
R2764
47K
R2765
10K
IC2705
LM393PS
R2766
220K
R2767
22K
C2756
1000P
R2768
180K
R2769
10K
R2770
10K
R2771
47K
R2772
47K
FG.L
FG.H
FG1
FG2
HP1
HP2
TO CAP(1)
CAP_FG(L) 7/11
CAP_FG(H) 7/11
CAP_FG1 7/11
CAP_FG2 7/11
CAP_HP1 7/11
CAP_HP2 7/11
R2781
10K
R2782
10K
R2783
220K
IC2708
LM393PS
C2758
50VR47(N)
R2787
10K
R2788
47K
D2720
MA153
C2760
50V2R2(N)
R2789
4700
IC2710
UPC4556G
IC2711
UPC4556G
C2761
100P
R2790
33K
R2791
3300
C2762
50V2R2
(W) 1
2(R)
3
C2770
1000P
R2776 4700
R2779
10K
R2785
220K
R2784
10K
IC2709
LM393PS
R2786
10K
R2780
10K
C2759
220P
R2792
10K
C2765
220P
D2722
MA153
R2793
47K
C2766
50V2R2(N)
R2794
4700
R2795
33K
C2767
100P
C2768
50V2R2
R2796
3300
C2769
1000P

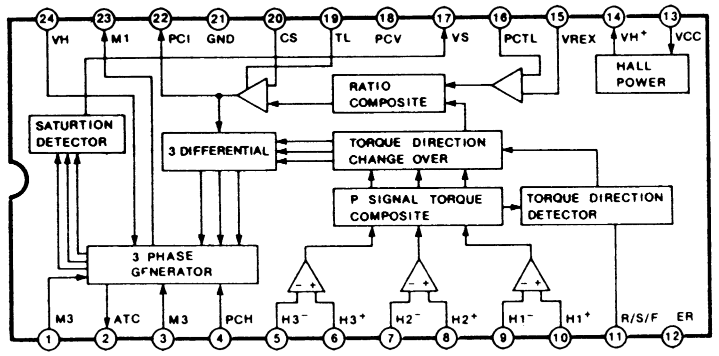
=INPUT SIGNAL
=OUTPUT SIGNAL

Ref No.2700 Series.

IC2703
AN3815K


18 ATC
17 M3
16 VM
15 PG/FG
14 P3
13 P2
12 P1
11 VCC
10 FC
I.FACE
PRESET
OSC
C.D.C
PG/FG DISP
MODE SELECT
1/16
POWER
MULTI PLICATION
EXT. SYNC
BEMF DET
STOP DET
RATURA DET
TORQUE CONTROL
S.M.D.
STOP
WAVE SHAPER
1 M2
2 M1
3 CS
4 PC
5 GND
6 ETR
7 HT
8 HE-
9 HE+

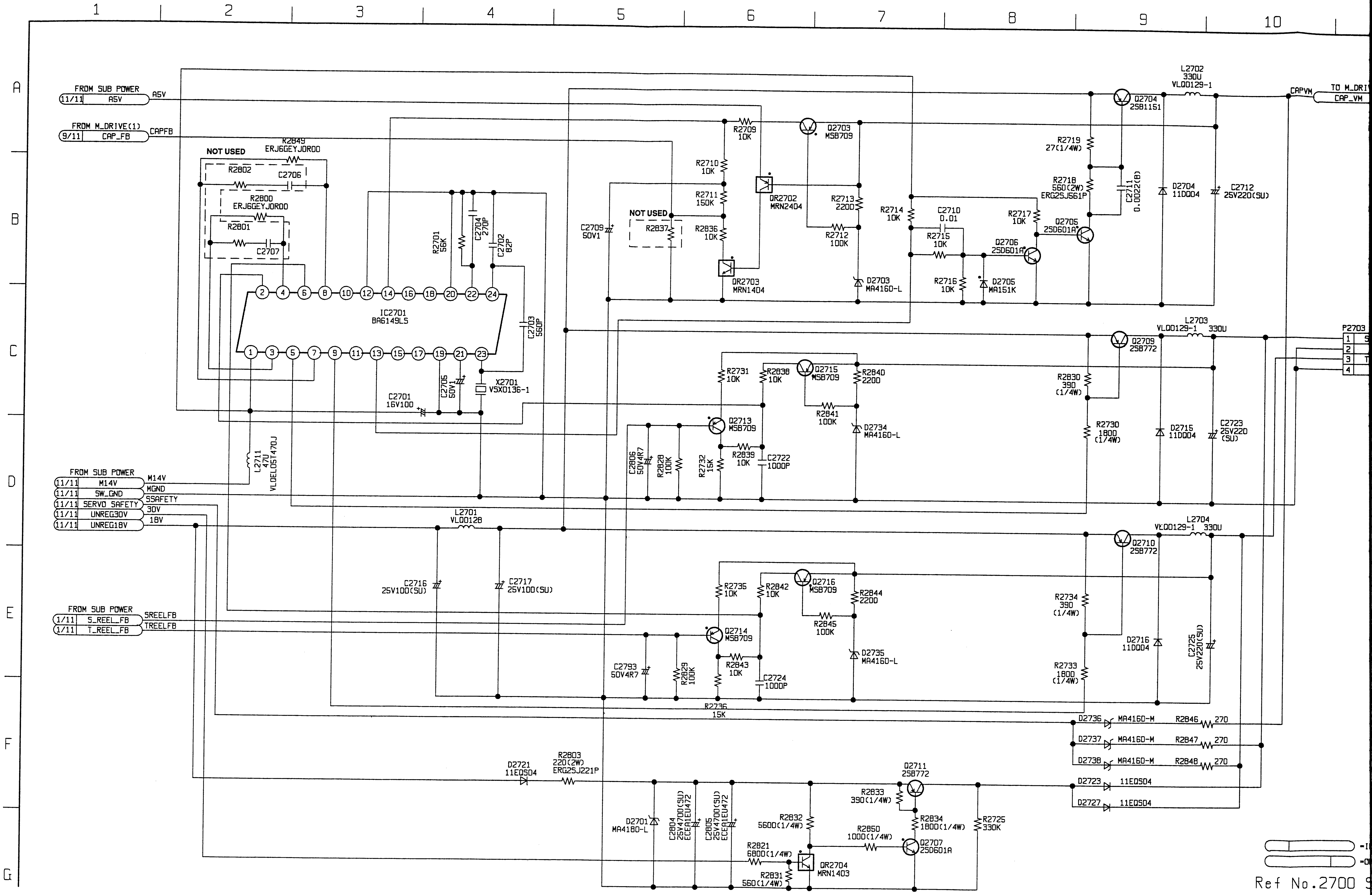
IC2704
XRA6435S


24 VH
23 M1
22 PCI
21 GND
20 CS
19 TL
18 PCV
17 VS
16 PCTL
15 VREX
14 VH+
13 VCC
HALL POWER
RATIO COMPOSITE
SATURTION DETECTOR
3 DIFFERENTIAL
TORQUE DIRECTION CHANGE OVER
P SIGNAL TORQUE COMPOSITE
TORQUE DIRECTION DETECTOR
3 PHASE GENERATOR
1 M3
2 ATC
3 M3
4 PCH
5 H3-
6 H3+
7 H2-
8 H2+
9 H1-
10 H1+
11 R/S/F
12 ER

MOTOR DRIVE-1 DC VOLTAGE CHART

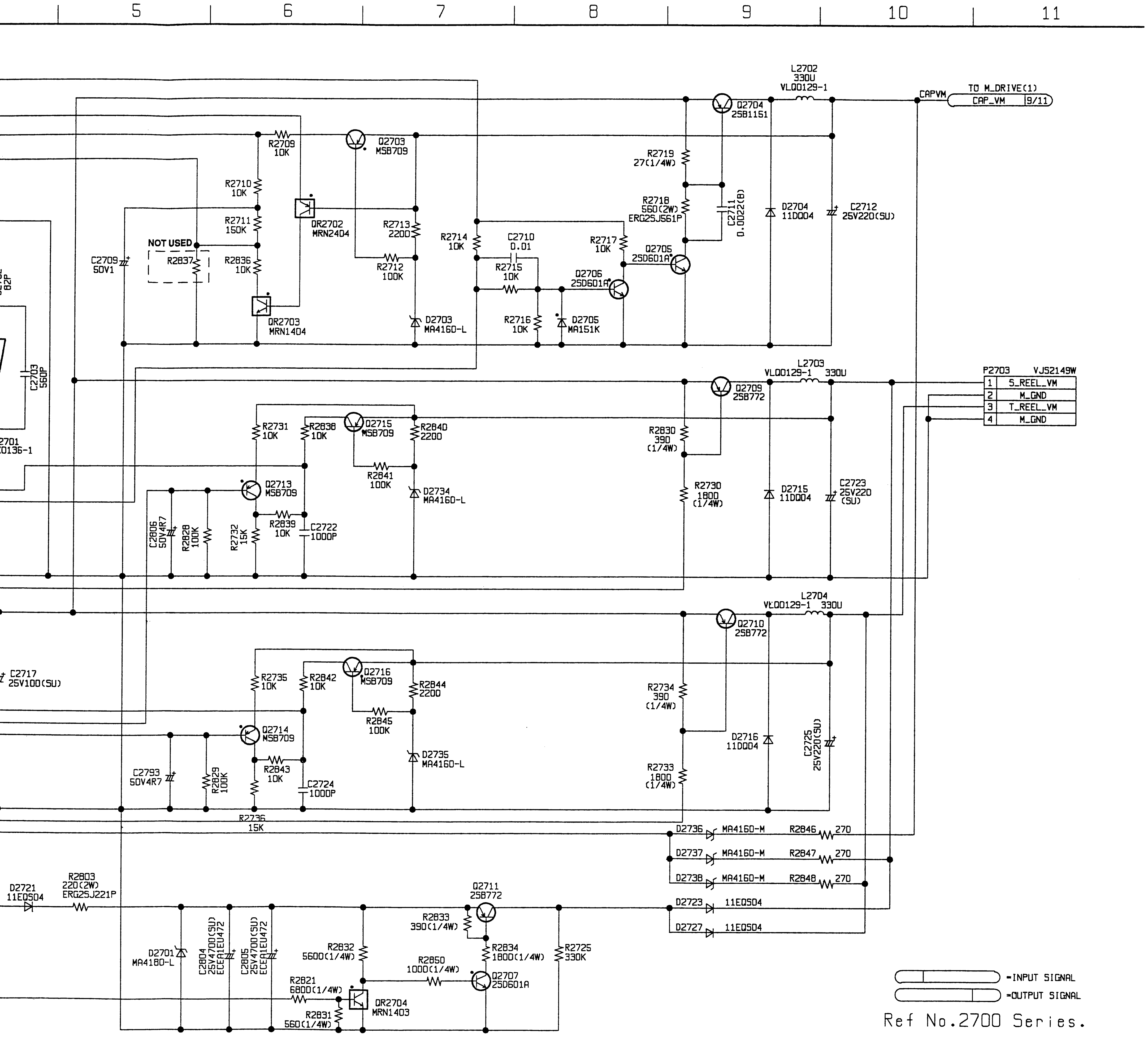
REF. NO.	IC2703									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	14.7	14.7	0.4	1.1	0	2.5	2.4	0.6	0.5	2.6
REC	14.7	14.7	0.4	1.1	0	2.5	2.4	0.6	0.5	2.6
F.F	14.7	14.8	0.4	1.1	0	2.5	2.4	0.6	0.5	2.6
REF. NO.	IC2703									
MODE	11	12	13	14	15	16	17	18		
STOP	5.0	3.6	3.6	3.6	1.1	14.9	14.7	0.1		
REC	5.0	3.6	3.6	3.6	1.1	15.0	14.7	0.1		
F.F	5.0	3.6	3.6	3.6	1.1	14.9	14.7	0.1		
REF. NO.	IC2704									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	2.0	0	2.0	1.4	1.9	1.9	1.9	1.9	1.9	1.9
REC	0.9	0	0.9	1.4	1.9	1.9	1.9	1.9	1.9	1.9
F.F	1.9	0	2.0	1.4	1.9	1.9	1.9	1.9	1.9	1.9
REF. NO.	IC2704									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	5.1	0	4.7	3.4	2.4	2.4	2.7	0	0	0
REC	0	0	4.7	3.4	2.4	2.1	2.8	0.6	0.4	0.1
F.F	0	0	4.7	3.4	2.4	2.4	2.7	0	0	0
REF. NO.	IC2704									
MODE	21	22	23	24						
STOP	0	0	1.8	4.0						
REC	0	0.7	0.7	4.0						
F.F	0	0	1.8	4.0						
REF. NO.	IC2705									
MODE	1	2	3	4	5	6	7	8		
STOP	0	3.2	1.7	0	1.7	2.0	0	5.0		
REC	2.6	2.0	2.0	0	2.0	2.0	2.6	5.0		
F.F	5.0	0.6	2.2	0	1.7	3.5	0	5.0		
REF. NO.	IC2706									
MODE	1	2	3	4	5	6	7	8		
STOP	3.2	1.9	1.9	0	1.9	1.9	2.0	5.0		
REC	2.0	1.9	1.9	0	1.9	1.9	2.0	5.0		
F.F	0.6	1.9	1.9	0	1.9	1.9	3.5	5.0		
REF. NO.	IC2707									
MODE	1	2	3	4	5	6	7	8		
STOP	2.1	2.5	2.5	0	2.4	2.5	0	5.0		
REC	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0		
F.F	2.1	2.5	2.5	0	2.5	2.5	0	5.0		
REF. NO.	IC2708									
MODE	1	2	3	4	5	6	7	8		
STOP	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0		
REC	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0		
F.F	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0		
REF. NO.	IC2709									
MODE	1	2	3	4	5	6	7	8		
STOP	5.0	2.5	2.4	0	2.4	2.5	4.5	5.0		
REC	2.3	2.5	2.5	0	2.5	2.5	2.3	5.0		
F.F	0.1	2.5	2.4	0	2.4	2.5	4.5	5.0		
REF. NO.	IC2710									
MODE	1	2	3	4	5	6	7	8		
STOP	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0		
REC	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0		
F.F	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0		
REF. NO.	IC2711									
MODE	1	2	3	4	5	6	7	8		
STOP	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0		
REC	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0		
F.F	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0		
REF. NO.	IC2715									
MODE	I	G	O							
STOP	18.4	0	12.0							
REC	18.4	0	12.0							
F.F	18.3	0	12.0							
REF. NO.	QR2701									
MODE	E	C	B							
STOP	0	0	5.1							
REC	0	0.4	0							
F.F.	0	0	5.2							

MOTOR DRIVE-2 SCHEMATIC DIAGRAM 10/11 (E3: Page CBA-5)



1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
FROM SUB POWER
11/11 A5V
A5V
FROM M_DRIVE(1)
9/11 CAP_FB
CAPFB
NOT USED
R2849
ERJ6GEYJOR00
R2802
C2706
R2800
ERJ6GEYJOR00
R2801
C2707
R2701
56K
C2704
270P
C2702
82P
IC2701
BA6149LS
C2703
560P
C2705
50V1
X2701
VSX0136-1
C2701
16V100
L2711
47U
VLOEL0ST470J
R2709
10K
Q2703
MSB709
R2710
10K
R2711
150K
NOT USED
R2837
R2836
10K
C2709
50V1
QR2702
MRN2404
QR2703
MRN1404
R2713
2200
R2712
100K
D2703
MA4160-L
R2714
10K
C2710
0.01
R2715
10K
R2716
10K
D2705
MA151K
Q2706
2SD601A
R2717
10K
Q2705
2SD601A
R2719
27(1/4W)
R2718
560(2W)
ERG2SJ561P
C2711
0.0022(B)
Q2704
2SB1151
L2702
330U
VLQ0129-1
D2704
11D004
C2712
25V220(SU)
CAPVM
TO M_DRI
CAP_VM
L2703
VLQ0129-1 330U
Q2709
2SB772
P2703
R2731
10K
R2838
10K
Q2715
MSB709
R2840
2200
R2841
100K
D2734
MA4160-L
Q2713
MSB709
C2806
50V4R7
R2828
100K
R2732
15K
R2839
10K
C2722
1000P
R2830
390
(1/4W)
R2730
1800
(1/4W)
D2715
11D004
C2723
25V220
(SU)
FROM SUB POWER
11/11 M14V
11/11 SW_GND
11/11 SERVO SAFETY
11/11 UNREG30V
11/11 UNREG18V
M14V
MGND
SSAFETY
30V
18V
L2701
VLQ0128
C2716
25V100(SU)
C2717
25V100(SU)
L2704
VLQ0129-1 330U
Q2710
2SB772
R2735
10K
R2842
10K
Q2716
MSB709
R2844
2200
R2845
100K
D2735
MA4160-L
R2734
390
(1/4W)
D2716
11D004
C2725
25V220(SU)
FROM SUB POWER
1/11 S_REEL_FB
1/11 T_REEL_FB
SREELFB
TREELFB
Q2714
MSB709
C2793
50V4R7
R2829
100K
R2843
10K
C2724
1000P
R2733
1800
(1/4W)
R2736
15K
D2736 MA4160-M
R2846 270
D2737 MA4160-M
R2847 270
D2738 MA4160-M
R2848 270
D2723 11EQS04
D2727 11EQS04
D2721
11EQS04
R2803
220(2W)
ERG2SJ221P
Q2711
2SB772
R2833
390(1/4W)
D2701
MA4180-L
C2804
25V4700(SU)
ECA1EU472
C2805
25V4700(SU)
ECA1EU472
R2832
5600(1/4W)
R2834
1800(1/4W)
R2725
330K
R2850
1000(1/4W)
Q2707
2SD601A
R2821
6800(1/4W)
QR2704
MRN1403
R2831
560(1/4W)
Ref No.2700

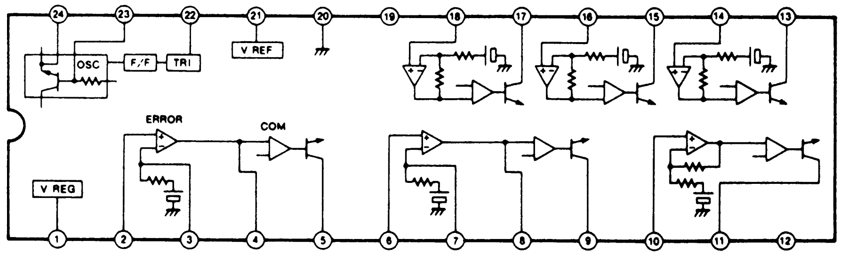
age CBA-5)


5
6
7
8
9
10
11
L2702 330U VLQ0129-1
Q2704 2SB1151
CAPVM
TO M_DRIVE(1)
CAP_VM 9/11
R2709 10K
Q2703 MSB709
R2710 10K
R2711 150K
NOT USED
R2837
R2836 10K
C2709 50V1
QR2702 MRN2404
QR2703 MRN1404
R2713 2200
R2712 100K
D2703 MA4160-L
R2714 10K
C2710 0.01
R2715 10K
R2716 10K
D2705 MA151K
Q2706 2SD601A
R2717 10K
Q2705 2SD601A
R2719 27(1/4W)
R2718 560(2W) ERG2SJ561P
C2711 0.0022(B)
D2704 11DQ04
C2712 25V220(SU)
C2703 560P
L2703 VLQ0129-1 330U
Q2709 2SB772
P2703 VJS2149W
1 S_REEL_VM
2 M_GND
3 T_REEL_VM
4 M_GND
R2731 10K
R2838 10K
Q2715 MSB709
R2840 2200
R2841 100K
D2734 MA4160-L
Q2713 MSB709
R2839 10K
C2722 1000P
R2732 15K
C2806 50V4R7
R2828 100K
R2830 390 (1/4W)
R2730 1800 (1/4W)
D2715 11DQ04
C2723 25V220 (SU)
L2704 VLQ0129-1 330U
Q2710 2SB772
C2717 25V100(SU)
R2735 10K
R2842 10K
Q2716 MSB709
R2844 2200
R2845 100K
D2735 MA4160-L
Q2714 MSB709
R2843 10K
C2724 1000P
C2793 50V4R7
R2829 100K
R2736 15K
R2734 390 (1/4W)
R2733 1800 (1/4W)
D2716 11DQ04
C2725 25V220(SU)
D2736 MA4160-M R2846 270
D2737 MA4160-M R2847 270
D2738 MA4160-M R2848 270
D2723 11EQS04
D2727 11EQS04
D2721 11EQS04
R2803 220(2W) ERG2SJ221P
D2701 MA4160-L
C2804 25V4700(SU) ECEA1EU472
C2805 25V4700(SU) ECEA1EU472
Q2711 2SB772
R2833 390(1/4W)
R2832 5600(1/4W)
R2834 1800(1/4W)
R2725 330K
R2850 1000(1/4W)
Q2707 2SD601A
R2821 6800(1/4W)
QR2704 MRN1403
R2831 560(1/4W)
=INPUT SIGNAL
=OUTPUT SIGNAL
Ref No.2700 Series.

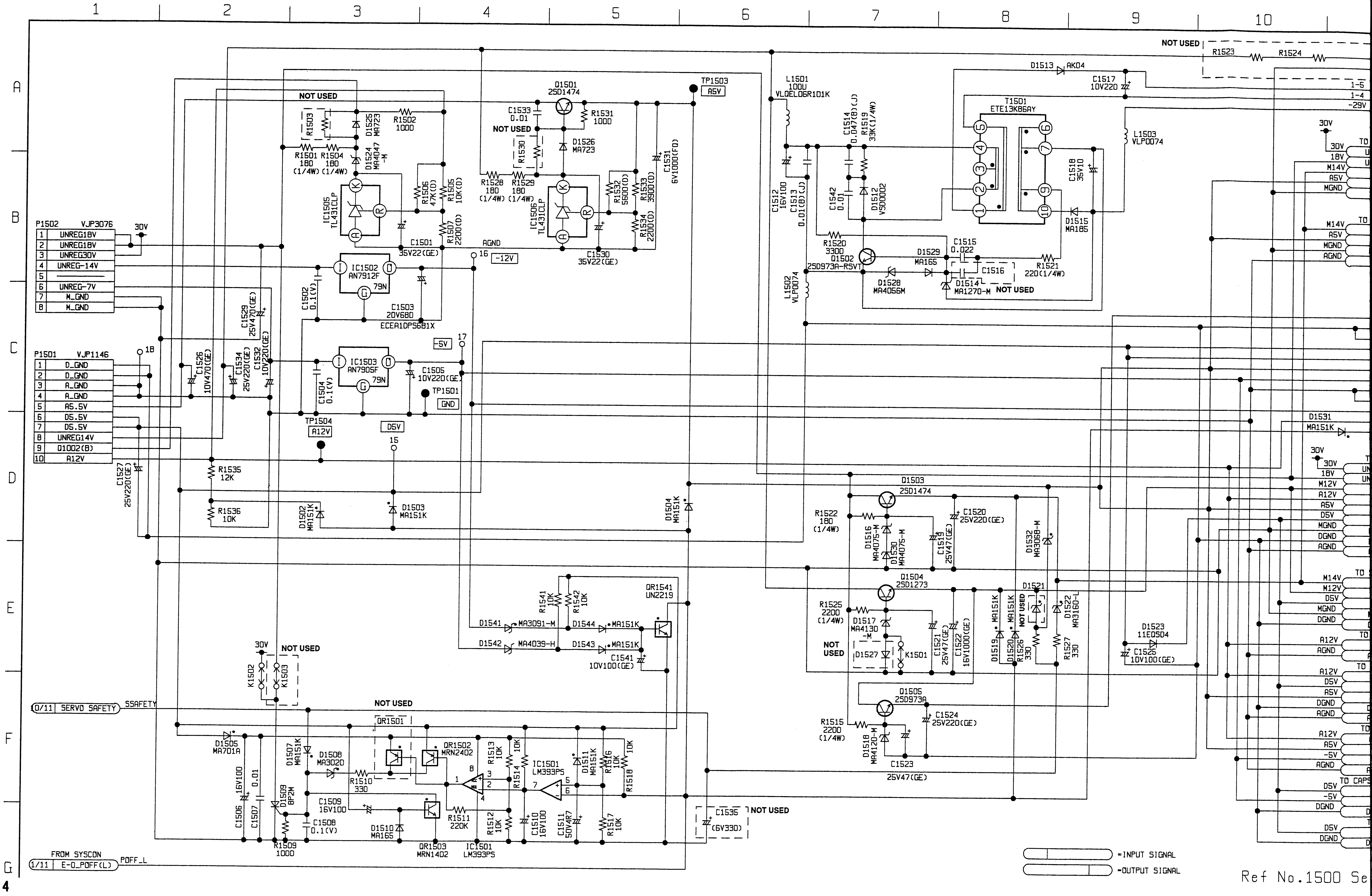
MOTOR DRIVE-2 DC VOLTAGE CHART

REF. NO.	IC2701									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	14.9	2.9	3.3	3.0	18.9	2.9	3.2	3.2	18.0	0
REC	14.9	2.9	3.3	3.0	18.1	2.9	2.9	2.9	17.8	0.1
F.F	14.9	2.8	2.9	2.9	17.8	2.7	2.7	2.7	12.3	0.1
REF. NO.	IC2701									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	0	0	6.1	2.7	0.5	0	0.5	0	0	0
REC	0.1	0	2.1	2.8	0.5	0.1	0.5	0.1	0	0
F.F	0.1	0	6.1	2.7	0.5	0.1	0.5	0.1	0	0
REF. NO.	IC2701									
MODE	21	22	23	24						
STOP	2.6	2.5	2.9	2.7						
REC	2.6	2.5	2.9	2.7						
F.F	2.6	2.5	2.9	2.8						
REF. NO.	Q2703			Q2704			Q2705			
MODE	E	C	B	E	C	B	E	C	B	
STOP	4.0	2.8	4.0	17.9	4.0	17.7	0	17.4	0	
REC	4.0	2.8	4.0	17.9	12.4	17.7	0	16.8	0.1	
F.F.	4.0	2.8	4.0	17.9	4.0	17.7	0	17.1	0	
REF. NO.	Q2706			Q2707			Q2709			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0.2	0.7	0	17.0	0.1	17.8	5.5	17.3	
REC	0	0.1	0.5	0	17.0	0.1	17.9	11.8	17.7	
F.F.	0	0	0.7	0	16.7	0.1	17.8	17.0	17.3	
REF. NO.	Q2710			Q2711			Q2713			
MODE	E	C	B	E	C	B	E	C	B	
STOP	17.8	5.6	17.4	17.5	1.2	17.5	2.9	2.9	2.4	
REC	17.9	11.9	17.7	17.0	2.9	17.0	3.0	3.0	2.4	
F.F.	17.8	7.1	17.4	17.0	2.0	17.0	3.6	2.8	3.3	
REF. NO.	Q2714			Q2715			Q2716			
MODE	E	C	B	E	C	B	E	C	B	
STOP	2.9	2.9	2.4	5.2	2.9	4.9	5.1	2.9	4.9	
REC	3.7	2.9	3.1	4.9	2.9	4.8	4.9	2.8	4.8	
F.F.	5.3	2.7	4.5	15.3	2.9	15.9	13.0	2.7	11.0	
REF. NO.	QR2702			QR2703			QR2704			
MODE	E	C	B	E	C	B	E	C	B	
STOP	5.0	1.4	4.0	0	1.6	1.2	0	0.1	2.4	
REC	5.0	1.4	4.0	0	1.6	1.4	0	0.1	2.5	
F.F.	5.0	1.2	4.0	0	1.8	1.2	0	0.1	2.4	

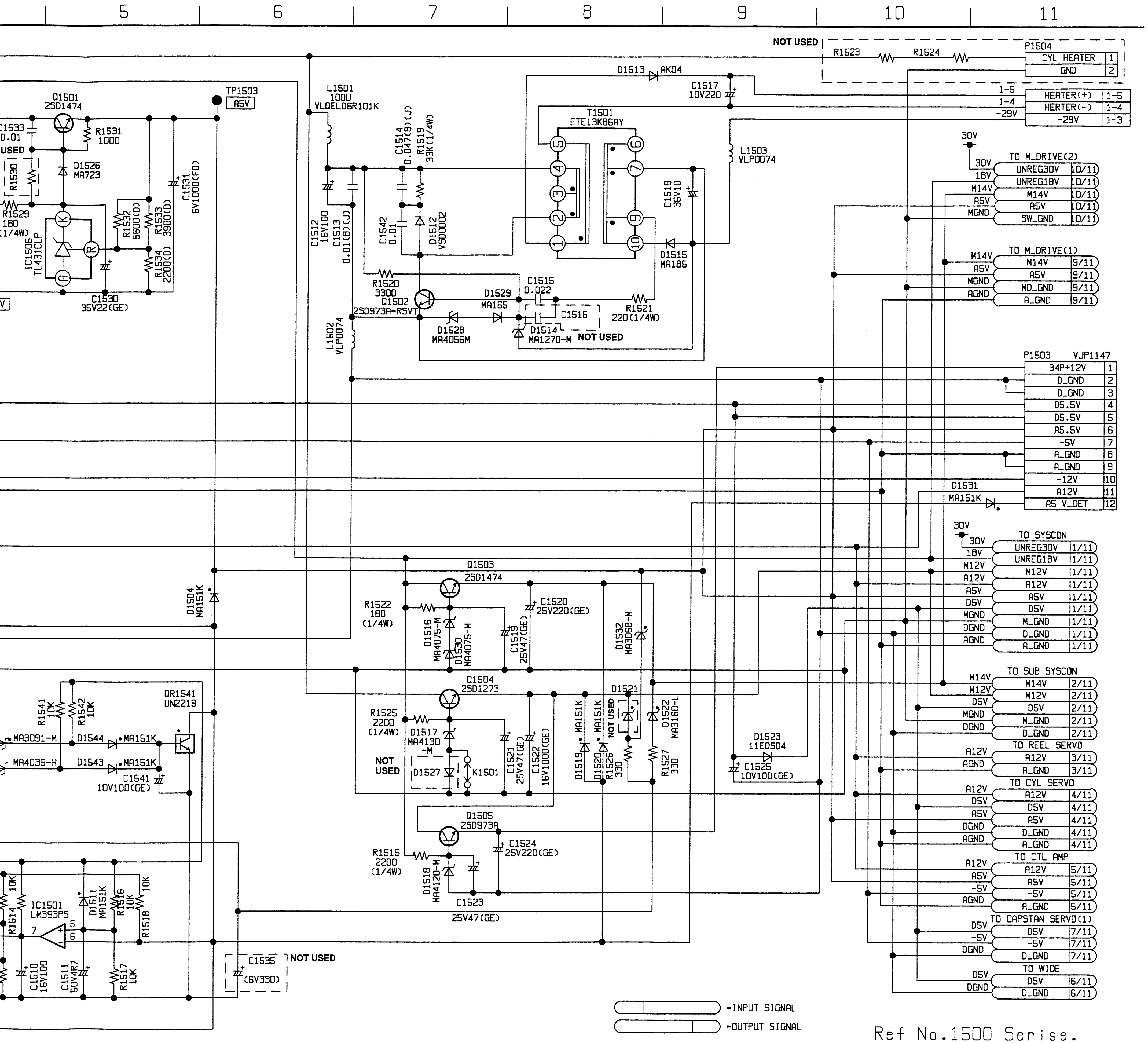
IC2701
BA6149LS


OSC
F/F
TRI
V REF
V REG
ERROR
COM

SUB POWER SCHEMATIC DIAGRAM 11/11 (E3: Page CBA-5)


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
NOT USED
R1523
R1524
D1513 AK04
C1517 10V220
1-5
1-4
-29V
TP1503
A5V
Q1501 2SD1474
C1533 0.01
R1531 1000
NOT USED
R1530
D1526 MA723
R1503
D1525 MA723
R1502 1000
R1501 180 (1/4W)
R1504 180 (1/4W)
D1524 MA4047-M
IC1505 TL431CLP
R1506 47K(D)
R1505 10K(D)
R1507 2200(D)
C1501 35V22(GE)
R1528 180 (1/4W)
R1529 180 (1/4W)
IC1506 TL431CLP
R1532 560(D)
R1533 390(D)
R1534 2200(D)
C1531 6V1000(FD)
C1530 35V22(GE)
AGND
16
-12V
IC1502 AN7912F 79N
C1502 0.1(V)
C1503 20V680 ECEA1DP5681X
-5V
17
IC1503 AN7905F 79N
C1504 0.1(V)
C1505 10V220(GE)
TP1501 GND
TP1504 A12V
D5V
15
L1501 100U VLOEL06R101K
C1512 16V100
C1513 0.01(B)(J)
C1514 0.047(B)(J)
R1519 33K(1/4W)
C1542 0.01
D1512 VSD0002
T1501 ETE13K86AY
L1503 VLP0074
C1518 35V10
D1515 MA185
R1520 3300
Q1502 2SD973A-R5VT
D1529 MA165
C1515 0.022
C1516
R1521 220(1/4W)
D1528 MA4056M
D1514 MA1270-M
NOT USED
L1502 VLP0074
30V
TO
18V
M14V
A5V
MGND
AGND
P1502 VJP3076
1 UNREG18V
2 UNREG18V
3 UNREG30V
4 UNREG-14V
5
6 UNREG-7V
7 M_GND
8 M_GND
C1529 25V470(GE)
P1501 VJP1146
18
1 D_GND
2 D_GND
3 A_GND
4 A_GND
5 A5.5V
6 D5.5V
7 D5.5V
8 UNREG14V
9 D1002(B)
10 A12V
C1526 10V470(GE)
C1534 25V220(GE)
C1532 10V220(GE)
C1527 25V220(GE)
R1535 12K
R1536 10K
D1502 MA151K
D1503 MA151K
D1504 MA151K
D1531 MA151K
Q1503 2SD1474
R1522 180 (1/4W)
C1520 25V220(GE)
D1516 MA4075-M
D1530 MA4075-M
C1519 25V47(GE)
D1532 MA3068-M
UN
M12V
A12V
D5V
DGND
Q1504 2SD1273
R1525 2200 (1/4W)
D1517 MA4130-M
NOT USED
D1527
K1501
C1521 25V47(GE)
C1522 16V1000(GE)
D1519 MA151K
D1520 MA151K
R1526 330
D1521
D1522 MA3160-L
R1527 330
D1523 11ES04
C1525 10V100(GE)
Q1505 2SD973A
R1515 2200 (1/4W)
C1524 25V220(GE)
D1518 MA4120-M
C1523 25V47(GE)
-5V
TO CAPS
D1541 MA3091-M
D1542 MA4039-H
R1541 10K
R1542 10K
D1544 MA151K
D1543 MA151K
QR1541 UN2219
C1541 10V100(GE)
K1502
K1503
10/11 SERVO SAFETY
SSAFETY
D1505 MA701A
C1506 16V100
C1507 0.01
D1507 MA151K
D1508 MA3020
D1509 8P2M
R1509 1000
R1510 330
QR1501
QR1502 MRN2402
C1509 16V100
C1508 0.1(V)
D1510 MA165
QR1503 MRN1402
R1511 220K
IC1501 LM393PS
R1513 10K
R1514 10K
R1512 10K
C1510 16V100
C1511 50V4R7
D1511 MA151K
R1516 10K
R1517 10K
R1518 10K
C1535 (6V330)
FROM SYSCON
1/11 E-O_POFF(L)
POFF_L
=INPUT SIGNAL
=OUTPUT SIGNAL
Ref No.1500 Se

CBA-5)



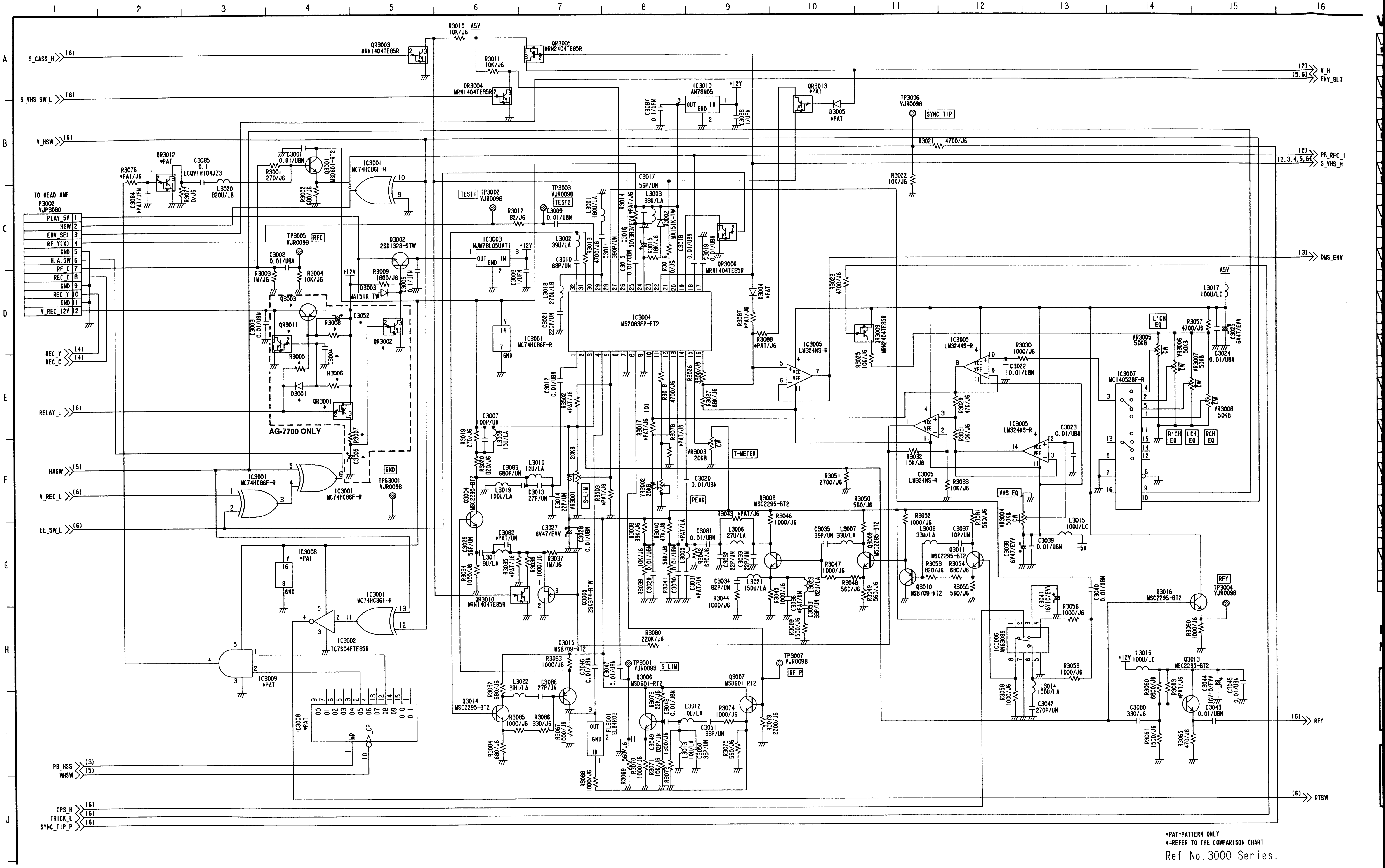
5
6
7
8
9
10
11
NOT USED
R1523
R1524
P1504
CYL HEATER
GND
D1513 AK04
C1517 10V220
HEATER(+) 1-5
HERTER(-) 1-4
-29V 1-3
TP1503
A5V
Q1501 2SD1474
R1531 1000
C1533 0.01
USED
R1530
D1526 MA723
R1529 180 (1/4W)
IC1506 TL431CLP
R1532 560Ω(D)
R1533 3900(D)
R1534 2200(D)
C1531 6V1000(FD)
C1530 35V22(GE)
L1501 100U VLQEL06R101K
C1514 0.047(B)(J)
R1519 33K(1/4W)
T1501 ETE13K86AY
L1503 VLP0074
C1512 16V100
C1513 0.01(B)(J)
C1542 0.01
D1512 V500002
C1518 35V10
D1515 MA185
R1520 3300
Q1502 2SD973A-R5V
C1515 0.022
D1529 MA165
R1521 220(1/4W)
C1516
D1528 MA4056M
D1514 MA1270-M
NOT USED
L1502 VLP0074
30V
TO M_DRIVE(2)
UNREG30V 10/11
UNREG18V 10/11
M14V 10/11
A5V 10/11
SW_GND 10/11
TO M_DRIVE(1)
M14V 9/11
A5V 9/11
MD_GND 9/11
A_GND 9/11
P1503 VJP1147
34P+12V 1
D_GND 2
D_GND 3
D5.5V 4
D5.5V 5
A5.5V 6
-5V 7
A_GND 8
A_GND 9
-12V 10
A12V 11
A5 V_DET 12
D1531 MA151K
TO SYSCON
UNREG30V 1/11
UNREG18V 1/11
M12V 1/11
A12V 1/11
A5V 1/11
D5V 1/11
M_GND 1/11
D_GND 1/11
A_GND 1/11
Q1503 2SD1474
R1522 180 (1/4W)
C1520 25V220(GE)
D1516 MA4075-M
D1530 MA4075-M
C1519 25V47(GE)
D1532 MA3068-M
D1504 MA151K
Q1504 2SD1273
R1525 2200 (1/4W)
D1517 MA4130-M
NOT USED
D1527
K1501
C1521 25V47(GE)
C1522 16V1000(GE)
D1519 MA151K
D1520 MA151K
R1526 330
D1521 NOT USED
D1522 MA3160-L
R1527 330
D1523 11E0504
C1525 10V100(GE)
R1541 10K
R1542 10K
QR1541 UN2219
MA3091-M
MA4039-H
D1544 MA151K
D1543 MA151K
C1541 10V100(GE)
Q1505 2SD973A
C1524 25V220(GE)
R1515 2200 (1/4W)
D1518 MA4120-M
C1523 25V47(GE)
IC1501 LM393PS
R1514
D1511 MA151K
R1516 10K
R1518 10K
C1510 16V100
C1511 50V4R7
R1517 10K
C1535 (6V330) NOT USED
TO SUB SYSCON
M14V 2/11
M12V 2/11
D5V 2/11
M_GND 2/11
D_GND 2/11
TO REEL SERVO
A12V 3/11
A_GND 3/11
TO CYL SERVO
A12V 4/11
D5V 4/11
A5V 4/11
D_GND 4/11
A_GND 4/11
TO CTL AMP
A12V 5/11
A5V 5/11
-5V 5/11
A_GND 5/11
TO CAPSTAN SERVO(1)
D5V 7/11
-5V 7/11
D_GND 7/11
TO WIDE
D5V 6/11
D_GND 6/11
=INPUT SIGNAL
=OUTPUT SIGNAL

Ref No.1500 Serise.

SUB POWER DC VOLTAGE CHART

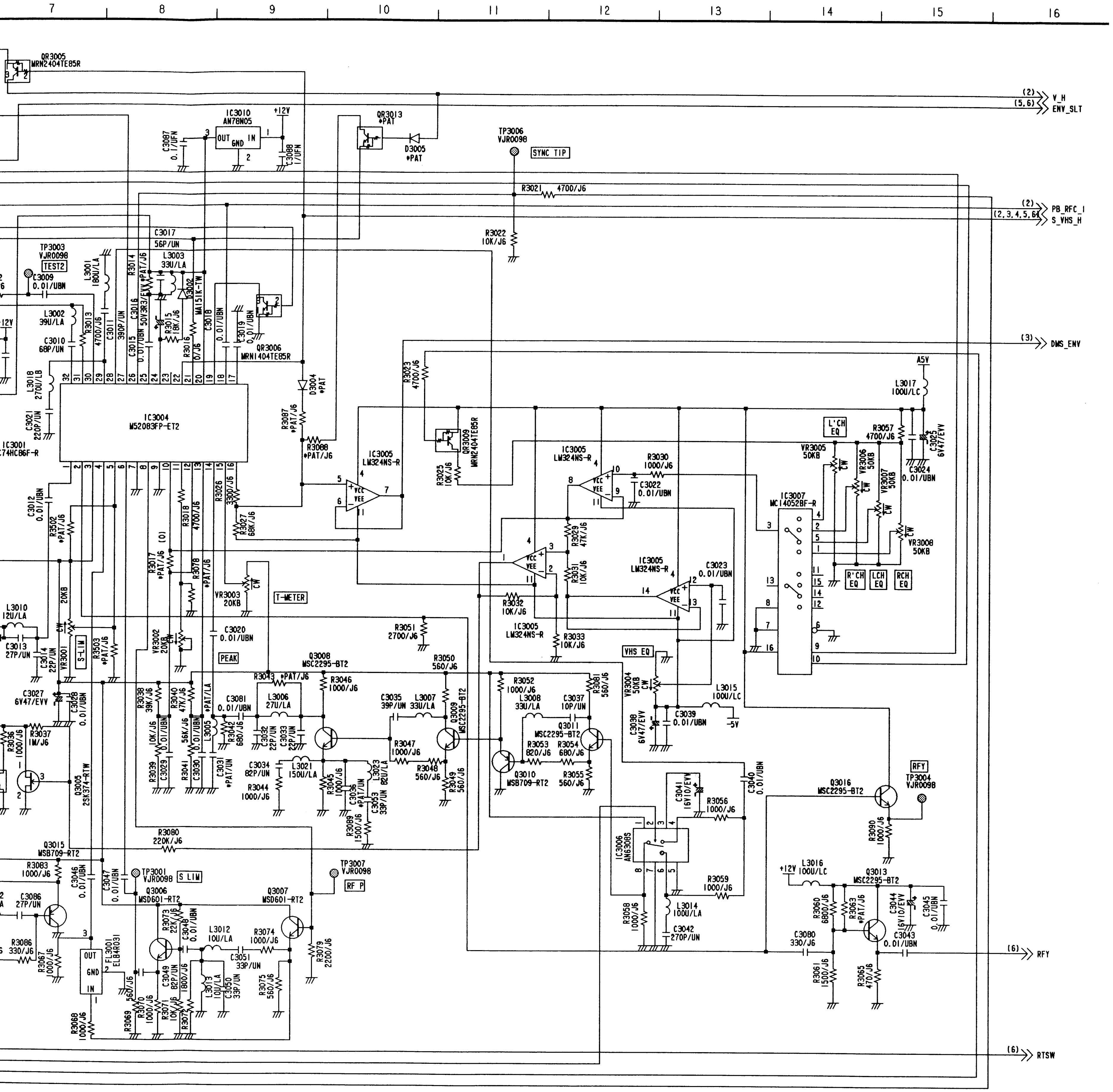
REF. NO.	IC1501									
MODE	1	2	3	4	5	6	7	8		
STOP	5.3	0.1	2.7	0	2.7	5.3	0.1	5.3		
REC	5.2	0.1	2.7	0	2.7	5.3	0.1	5.3		
F.F	5.3	0.1	2.7	0	2.7	5.3	0.1	5.3		
REF. NO.	IC1502					IC1503				
MODE	G	I	O			G	I	O		
STOP	0	−13.7	−12.2			0	−7.0	−5.0		
REC	0	−13.7	−12.2			0	−7.0	−5.0		
F.F	0	−13.7	−12.2			0	−6.9	−5.0		
REF. NO.	IC1505					IC1506				
MODE	K	A	R			K	A	R		
STOP	7.7	0	2.5			5.9	0	2.5		
REC	7.7	0	2.5			5.9	0	2.5		
F.F	7.7	0	2.5			5.9	0	2.5		
REF. NO.	Q1501			Q1502			Q1503			
MODE	E	C	B	E	C	B	E	C	B	
STOP	5.1	5.4	5.7	0	1.6	−3.0	14.8	18.3	15.4	
REC	5.1	5.4	5.7	0	1.5	−3.0	15.0	18.5	15.5	
F.F.	5.1	5.4	5.7	0	1.5	−2.8	15.0	18.1	15.4	
REF. NO.	Q1504			Q1505						
MODE	E	C	B	E	C	B				
STOP	13.0	13.6	13.5	12.0	13.0	12.3				
REC	13.0	13.4	13.5	12.0	12.9	12.3				
F.F.	13.0	13.5	13.5	12.0	12.9	12.3				
REF. NO.	QR1502			QR1503			QR1541			
MODE	E	C	B	E	C	B	E	C	B	
STOP	5.5	0	5.2	0	0	0	0	5.3	0	
REC	5.5	0	5.2	0	0	0	0	5.3	0	
F.F.	5.5	0	5.2	0	0	0	0	5.3	0	

VIDEO I/O-1 SCHEMATIC DIAGRAM 1/7 (E5: Page CBA-8)


S_CASS_H
S_VHS_SW_L
V_HSW
TO HEAD AMP
P3002
VJP3080
PLAY 5V
HSW
ENV_SEL
RF_Y(X)
GND
H.A.SW
RF_C
REC_C
GND
REC_Y
GND
V_REC_12V
REC_Y
REC_C
RELAY_L
HASW
V_REC_L
EE_SW_L
PB_HSS
WHSW
CPS_H
TRICK_L
SYNC_TIP_P
V_H
ENV_SLT
PB_RFC_I
S_VHS_H
DMS_ENV
RFY
RTSW
QR3003 MRN1404TE85R
QR3005 MRN2404TE85R
QR3004 MRN1404TE85R
QR3012 *PAT
QR3013 *PAT
IC3010 AN78N05
IC3001 MC74HC86F-R
IC3003 NJM78L05UAT1
IC3004 M52083FP-ET2
IC3005 LM324NS-R
IC3007 MC14052BF-R
IC3006 AN6308S
IC3002 TC7S04FTE85R
IC3008 *PAT
IC3009 *PAT
Q3001 MSD601-RT2
Q3002 2SD1328-STW
Q3003
QR3011
QR3002
QR3001
QR3006 MRN1404TE85R
QR3009 MRN2404TE85R
QR3010 MRN1404TE85R
Q3004 MSC2295-BT2
Q3005 2SK374-RTW
Q3006 MSD601-RT2
Q3007 MSD601-RT2
Q3008 MSC2295-BT2
Q3009 MSC2295-BT2
Q3010 MSB709-RT2
Q3011 MSC2295-BT2
Q3013 MSC2295-BT2
Q3014 MSC2295-BT2
Q3015 MSB709-RT2
Q3016 MSC2295-BT2
FL3001 ELB4R031
D3001
D3003 MA151K-TW
D3004 *PAT
D3005 *PAT
TP3001 VJR0098 S_LIM
TP3002 VJR0098 TEST1
TP3003 VJR0098 TEST2
TP3004 VJR0098 RFY
TP3005 VJR0098 RFC
TP3006 VJR0098 SYNC TIP
TP3007 VJR0098 RF P
TP63001 VJR0098 GND
VR3001 S-LIM
VR3002 PEAK
VR3003 T-METER
VR3004 VHS EQ
VR3005 L'CH EQ
VR3006 R'CH EQ
VR3007 LCH EQ
VR3008 RCH EQ
AG-7700 ONLY
+12V
A5V
-5V

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

Ref No.3000 Series.


7
8
9
10
11
12
13
14
15
16
QR3005 MRN2404TE85R
IC3010 AN78N05
+12V
QR3013 *PAT
D3005 *PAT
TP3006 VJR0098
SYNC TIP
R3021 4700/J6
R3022 10K/J6
(2) V_H
(5,6) ENV_SLT
(2) PB_RFC_I
(2,3,4,5,6) S_VHS_H
(3) DMS_ENV
C3017 56P/UN
TP3003 VJR0098
TEST2
C3009 0.01/UBN
L3001 180U/LA
L3003 33U/LA
L3002 39U/LA
C3010 68P/UN
L3018 270U/LB
C3021 220P/UN
QR3006 MRN1404TE85R
IC3004 M52083FP-ET2
IC3001 74HC86F-R
D3004 *PAT
R3087 *PAT/J6
R3088 *PAT/J6
IC3005 LM324NS-R
QR3009 MRN2404TE85R
R3023 4700/J6
R3025 10K/J6
R3030 1000/J6
C3022 0.01/UBN
A5V
L3017 100U/LC
L'CH EQ
R3057 4700/J6
C3024 0.01/UBN
VR3005 50KB
VR3006 50KB
VR3007 50KB
VR3008 50KB
IC3007 MC14052BF-R
R'CH EQ
LCH EQ
RCH EQ
R3026 3300/J6
R3027 68K/J6
R3029 47K/J6
R3031 10K/J6
R3032 10K/J6
R3033 10K/J6
C3023 0.01/UBN
VR3003 20KB
T-METER
L3010 12U/LA
C3013 27P/UN
C3020 0.01/UBN
PEAK
S-LIM
R3051 2700/J6
R3050 560/J6
VHS EQ
VR3004 50KB
Q3008 MSC2295-BT2
R3043 *PAT/J6
R3046 1000/J6
C3081 0.01/UBN
L3006 27U/LA
C3035 39P/UN
L3007 33U/LA
Q3009 MSC2295-BT2
R3052 1000/J6
L3008 33U/LA
C3037 10P/UN
R3081 560/J6
Q3011 MSC2295-BT2
L3015 100U/LC
C3039 0.01/UBN
-5V
C3027 6V47/EVV
R3037 1M/J6
Q3005 2SK374-RTW
C3034 82P/UN
L3021 150U/LA
R3044 1000/J6
R3047 1000/J6
R3048 560/J6
R3049 560/J6
Q3010 MSB709-RT2
R3053 820/J6
R3054 680/J6
R3055 560/J6
C3041 16V10/EVV
R3056 1000/J6
C3040 0.01/UBN
RFY
TP3004 VJR0098
Q3016 MSC2295-BT2
R3080 220K/J6
IC3006 AN6308S
R3090 1000/J6
Q3015 MSB709-RT2
R3083 1000/J6
C3086 27P/UN
R3086 330/J6
TP3001 VJR0098
S LIM
TP3007 VJR0098
RF P
Q3006 MSD601-RT2
Q3007 MSD601-RT2
FL3001 ELB4R031
L3012 10U/LA
R3074 1000/J6
C3051 33P/UN
R3079 2200/J6
R3075 560/J6
R3068 1000/J6
R3059 1000/J6
R3058 1000/J6
L3014 100U/LA
C3042 270P/UN
+12V
L3016 100U/LC
Q3013 MSC2295-BT2
R3060 6800/J6
R3063 *PAT/J6
C3044 6V10/EVV
C3043 0.01/UBN
C3045 0.01/UBN
C3080 330/J6
R3061 1500/J6
R3065 470/J6
(6) RFY
(6) RTSW

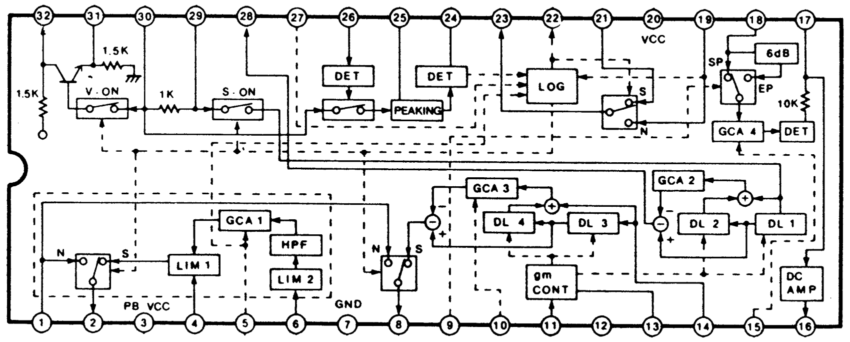
*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

Ref No.3000 Series.

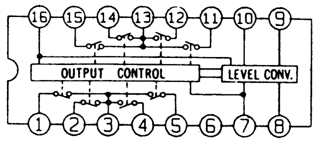
VIDEO I/O-1 DC VOLTAGE CHART

REF. NO.	IC3001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	3.7	0	5.0	5.0	0	5.0	0	2.5	0	2.5	2.5	2.5	0	5.0						
REC	0.1	0	0	0	0	0	0	2.5	0	2.5	2.5	2.5	0	5.0						
REF. NO.	IC3002										IC3003									
MODE	1	2	3	4	5						I	G	O							
STOP	0	2.5	0	2.5	5.0						11.5	0	5.1							
REC	0	2.5	0	2.5	5.0						11.5	0	5.1							
REF. NO.	IC3004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.7	2.2	5.0	3.1	2.4	2.8	0	2.2	0	1.4	2.9	1.1	2.7	3.9	2.2	0.6	3.3	3.0	2.5	5.0
REC	3.7	2.2	5.0	3.1	2.4	2.8	0	2.2	0	1.4	2.9	1.1	2.7	3.9	2.2	0.3	3.2	3.0	2.5	5.0
REF. NO.	IC3004																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
STOP	0	4.9	0.2	2.8	3.9	0.2	4.9	2.7	2.8	3.6	0	5.0								
REC	0.1	4.9	0.2	2.7	3.9	0.2	4.9	2.7	2.8	3.6	0	5.0								
REF. NO.	IC3005																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	−0.9	−0.4	−0.4	4.9	0.2	0.2	0.2	1.4	1.4	1.4	−5.0	−0.8	−0.8	−0.8						
REC	−0.9	−0.4	−0.4	4.9	0	0	0	1.4	1.4	1.4	−5.0	−0.8	−0.8	−0.8						
REF. NO.	IC3006																			
MODE	1	2	3	4	5	6	7	8												
STOP	5.0	4.2	2.5	2.6	0	2.6	0	2.5												
REC	5.0	4.2	2.5	2.6	0	2.6	0	2.5												
REF. NO.	IC3007																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	1.4	1.0	1.4	1.3	1.4	0	0	0	0	2.5	0.2	0.2	0.2	0.2	0.5	4.9				
REC	1.4	1.0	1.4	1.3	1.4	0	0	0	0	2.5	0	0	0	0	0	4.9				
REF. NO.	IC3010																			
MODE	I	G	O																	
STOP	11.5	0	5.0																	
REC	11.5	0	5.0																	
REF. NO.	Q3001			Q3002			Q3003			Q3004			Q3005			Q3006				
MODE	E	C	B	E	C	B	E	C	B	E	C	B	S	G	D	E	C	B		
STOP	1.6	5.0	2.3	5.1	5.1	5.6	11.5	0	11.5	0.1	5.0	0.7	0	−0.7	0	0.9	5.0	1.5		
REC	0	5.0	0	0.3	5.1	0	11.5	11.3	10.7	0.1	5.0	0.7	0	−0.7	0	0.9	5.0	1.5		
REF. NO.	Q3007			Q3008			Q3009			Q3010			Q3011			Q3013				
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B		
STOP	1.6	5.0	2.3	1.0	4.0	1.7	1.7	3.3	2.4	2.4	0	1.8	1.8	3.2	2.5	1.5	11.5	2.1		
REC	1.6	5.0	2.3	1.0	4.0	1.7	1.7	3.3	2.4	2.4	0	1.8	1.8	3.2	2.5	1.4	11.5	2.1		
REF. NO.	Q3014			Q3015																
MODE	E	C	B	E	C	B														
STOP	0	5.0	0	0.7	0	0														
REC	0	5.0	0	0.7	0	0														
REF. NO.	QR3001			QR3002			QR3003			QR3004			QR3005			QR3006				
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B		
STOP	11.5	0	11.5	0	5.8	0	0	0.1	3.0	0	4.9	0	4.9	0	4.9	0	2.5	0		
REC	11.5	11.5	0	0	0	7.7	0	0.1	3.0	0	4.9	0	4.9	0	4.9	0	2.5	0		
REF. NO.	QR3009			QR3010			QR3011													
MODE	E	C	B	E	C	B	E	C	B											
STOP	4.9	4.9	3.5	0	0	0.1	0	0	7.8											
REC	4.9	4.9	3.5	0	0	0.1	0	11.3	0.5											

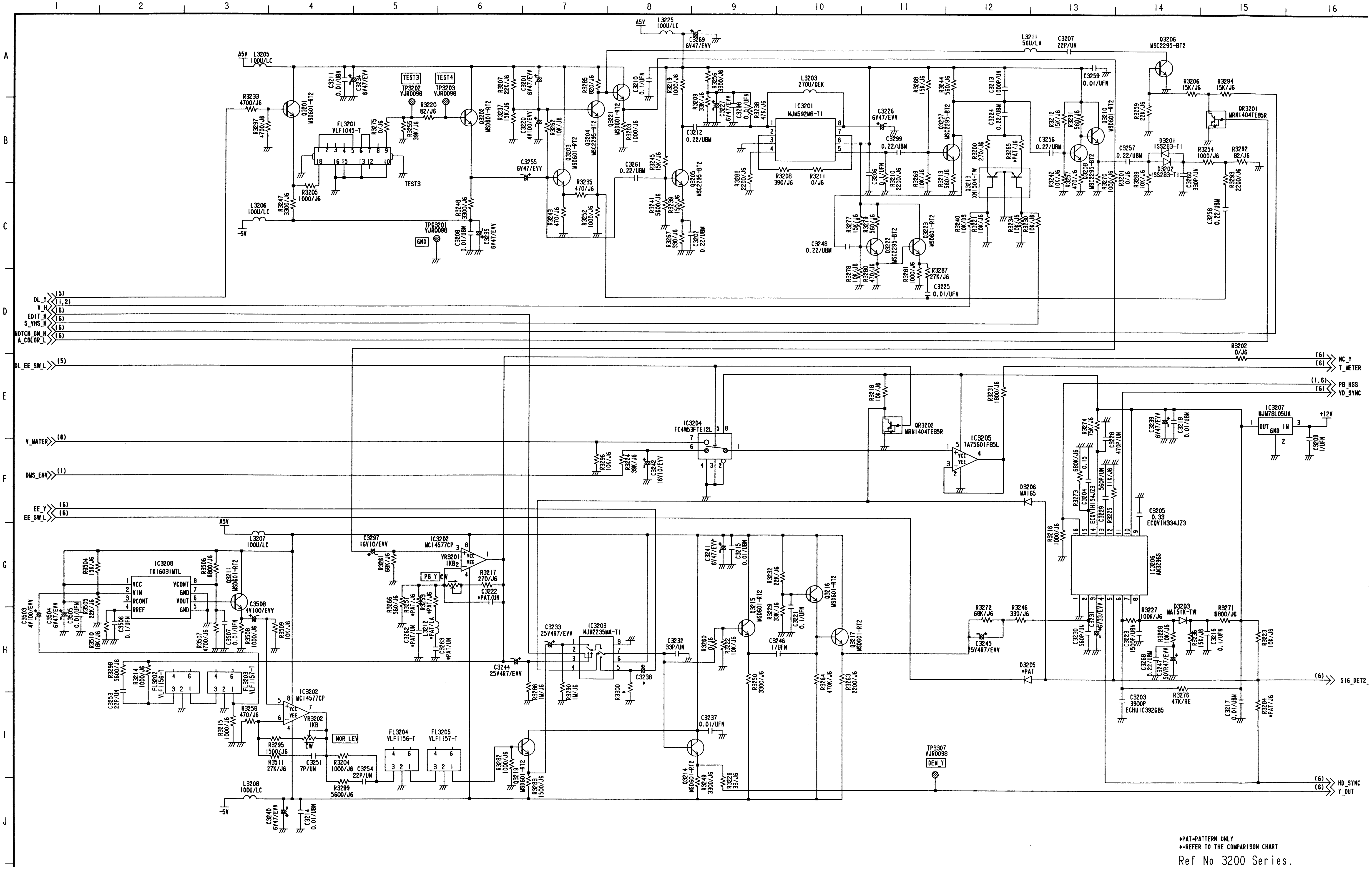
IC3004
M52083FP


32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
1.5K
1.5K
V-ON
1K
S-ON
DET
DET
PEAKING
LOG
VCC
SP
6dB
EP
10K
GCA 4
DET
GCA 3
GCA 2
GCA 1
LIM 1
HPF
LIM 2
DL 4
DL 3
DL 2
DL 1
gm CONT
DC AMP
PB VCC
GND
N
S
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

IC3007
MC14052BF

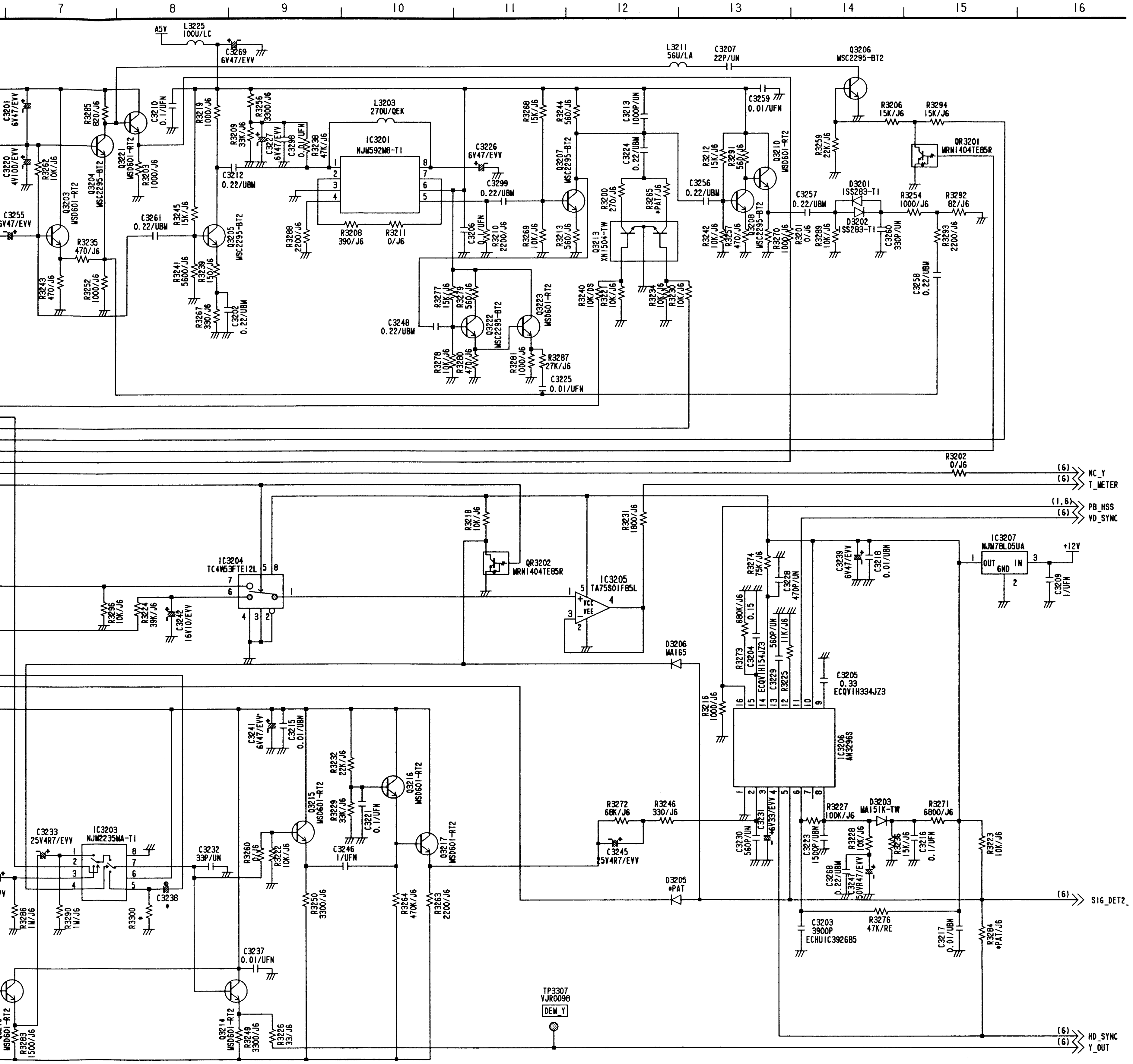

16
15
14
13
12
11
10
9
OUTPUT CONTROL
LEVEL CONV.
1
2
3
4
5
6
7
8

VIDEO I/O-3 SCHEMATIC DIAGRAM 3/7 (E5: Page CBA-8)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
A5V
L3205 100U/LC
R3233 4700/J6
Q3201 MSD601-RT2
FL3201 VLF1045-T
TEST3
TEST4
TP3202 VJR0098
TP3203 VJR0098
R3220 82/J6
Q3202 MSD601-RT2
Q3203 MSD601-RT2
Q3204 MSC2295-BT2
Q3221 MSD601-RT2
TP63201 VJR0098
GND
L3206 100U/LC
-5V
L3225 100U/LC
C3269 6V47/EVV
L3203 270U/QEK
IC3201 NJM592M8-T1
Q3205 MSC2295-BT2
Q3207 MSC2295-BT2
Q3213 XN1504-TW
Q3222 MSC2295-BT2
Q3223 MSD601-RT2
L3211 56U/LA
C3207 22P/UN
Q3206 MSC2295-BT2
Q3208 MSC2295-BT2
Q3210 MSD601-RT2
QR3201 MRN1404TE85R
D3201 1SS283-T1
D3202 1SS283-T1
DL_Y (5)
V_H (1,2)
EDIT_H (6)
S_VHS_H (6)
NOTCH_ON_H (6)
A_COLOR_L (6)
DL_EE_SW_L (5)
R3202 0/J6
NC_Y (6)
T_METER (6)
PB_HSS (1,6)
VD_SYNC (6)
IC3204 TC4W53FTE12L
QR3202 MRN1404TE85R
IC3205 TA75S01F85L
IC3207 NJM78L05UA
+12V
V_MATER (6)
DMS_ENV (1)
EE_Y (6)
EE_SW_L (6)
D3206 MA165
IC3206 AN3296S
A5V
L3207 100U/LC
IC3208 TK16031MTL
Q3211 MSD601-RT2
IC3202 MC14577CP
VR3201 1KB
PB Y
C3297 16V10/EVV
IC3203 NJM2235MA-T1
Q3215 MSD601-RT2
Q3216 MSD601-RT2
Q3217 MSD601-RT2
D3203 MA151K-TW
D3205 *PAT
SIG_DET2 (6)
FL3202 VLF1156-T
FL3203 VLF1157-T
IC3202 MC14577CP
VR3202 1KB
NOR LEV
FL3204 VLF1156-T
FL3205 VLF1157-T
Q3219
Q3214 MSD601-RT2
TP3307 VJR0098
DEM_Y
L3208 100U/LC
-5V
HD_SYNC (6)
Y_OUT (6)

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

Ref No 3200 Series.


7
8
9
10
11
12
13
14
15
16
A5V
L3225
100U/LC
C3269
6V47/EVV
C3201
6V47/EVV
C3220
4V100/EVV
R3262
10K/J6
C3255
6V47/EVV
Q3203
MSD601-RT2
R3235
470/J6
R3243
470/J6
R3252
1000/J6
R3285
820/J6
Q3221
MSD601-RT2
Q3204
MSC2295-BT2
R3203
1000/J6
C3210
0.1/UFN
C3261
0.22/UBM
R3219
1000/J6
R3209
33K/J6
R3256
3300/J6
C3227
6V47/EVV
C3298
0.01/UFN
R3228
47K/J6
C3212
0.22/UBM
R3245
15K/J6
Q3205
MSC2295-BT2
R3241
5600/J6
R3239
150/J6
R3267
330/J6
C3202
0.22/UBM
L3203
270U/QEK
IC3201
NJM592M8-T1
R3288
2200/J6
R3208
390/J6
R3211
0/J6
C3226
6V47/EVV
C3299
0.22/UBM
C3206
0.1/UFN
R3210
2200/J6
R3277
15K/J6
R3279
560/J6
Q3222
MSC2295-BT2
Q3223
MSD601-RT2
C3248
0.22/UBM
R3278
10K/J6
R3280
470/J6
R3291
1000/J6
R3287
27K/J6
C3225
0.01/UFN
R3268
15K/J6
R3244
560/J6
Q3207
MSC2295-BT2
R3269
10K/J6
R3213
560/J6
C3213
1000P/UN
C3224
0.22/UBM
R3200
270/J6
R3265
*PAT/J6
Q3213
XN1504-TW
R3240
10K/DS
R3237
10K/J6
R3234
10K/J6
R3230
10K/J6
L3211
56U/LA
C3207
22P/UN
C3259
0.01/UFN
R3212
15K/J6
R3291
560/J6
Q3210
MSD601-RT2
C3256
0.22/UBM
Q3208
MSC2295-BT2
R3242
10K/J6
R3257
470/J6
R3270
1000/J6
Q3206
MSC2295-BT2
R3206
15K/J6
R3294
15K/J6
R3259
22K/J6
QR3201
MRN1404TE85R
C3257
0.22/UBM
D3201
1SS283-T1
D3202
1SS283-T1
R3201
0/J6
R3289
10K/J6
C3260
330P/UN
R3254
1000/J6
R3292
82/J6
R3293
2200/J6
C3258
0.22/UBM
R3202
0/J6
(6) NC_Y
(6) T_METER
(1,6) PB_HSS
(6) VD_SYNC
R3218
10K/J6
QR3202
MRN1404TE85R
R3231
1800/J6
IC3204
TC4W53FTE12L
R3296
10K/J6
R3224
39K/J6
C3242
16V10/EVV
IC3205
TA75S01F85L
VCC
VEE
D3206
MA165
R3274
75K/J6
C3228
470P/UN
R3273
680K/J6
C3204
ECQV1H154JZ3
0.15
C3229
560P/UN
R3225
11K/J6
C3239
6V47/EVV
C3218
0.01/UBN
IC3207
NJM78L05UA
OUT
GND
IN
+12V
C3209
1/UFN
C3205
0.33
ECQV1H334JZ3
R3216
1000/J6
IC3206
AN3296S
C3241
6V47/EVV
C3215
0.01/UBN
R3232
22K/J6
Q3216
MSD601-RT2
R3229
33K/J6
C3221
0.1/UFN
Q3215
MSD601-RT2
Q3217
MSD601-RT2
C3233
25V4R7/EVV
IC3203
NJM2235MA-T1
C3232
33P/UN
R3260
0/J6
R3222
10K/J6
C3246
1/UFN
R3272
68K/J6
R3246
330/J6
C3245
25V4R7/EVV
D3205
*PAT
C3230
560P/UN
C3231
6V33/EVV
C3223
1500P/UBN
R3227
100K/J6
D3203
MA151K-TW
R3271
6800/J6
R3228
10K/J6
R3236
15K/J6
C3216
0.1/UFN
R3223
10K/J6
C3268
0.22/UBM
C3247
50VR47/EVV
C3238
R3286
1M/J6
R3290
1M/J6
R3300
R3250
3300/J6
R3264
470K/J6
R3263
2200/J6
(6) SIG_DET2_
C3203
3900P
ECHU1C392G85
R3276
47K/RE
C3217
0.01/UBN
R3284
*PAT/J6
C3237
0.01/UFN
TP3307
VJR0098
DEM_Y
Q3214
MSD601-RT2
R3249
3300/J6
R3226
33/J6
R3253
1500/J6
MSD601-RT2
(6) HD_SYNC
(6) Y_OUT

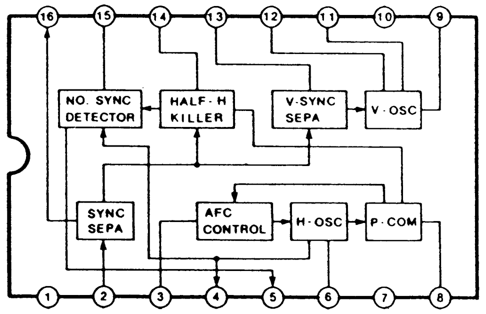
*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

Ref No 3200 Series.

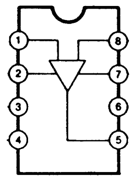
VIDEO I/O-3 DC VOLTAGE CHART

REF. NO.	IC3201									
MODE	1	2	3	4	5	6	7	8		
STOP	3.4	2.7	0	3.3	3.3	4.7	2.7	3.4		
REC	3.4	2.7	0	3.3	3.3	4.7	2.7	3.4		
REF. NO.	IC3202									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−4.8	0	0	0.1	4.7		
REC	0	0	0	−4.8	0	0	0.1	4.7		
REF. NO.	IC3203									
MODE	1	2	3	4	5	6	7	8		
STOP	1.9	4.9	1.9	3.5	2.3	4.7	1.5	0		
REC	1.9	4.9	1.9	3.5	2.3	4.7	1.5	0		
REF. NO.	IC3205									
MODE	1	2	3	4	5					
STOP	0.9	0	0	0	5.0					
REC	0.9	0	0	0	5.0					
REF. NO.	IC3206									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	3.3	4.1	3.4	0.2	2.9	0	3.0	2.2	5.0
REC	0	3.3	4.1	3.5	0.2	2.9	0	3.0	2.2	5.0
REF. NO.	IC3206									
MODE	11	12	13	14	15	16				
STOP	4.8	0.7	0.1	1.2	3.8	3.5				
REC	4.8	0.7	0.1	1.2	3.8	3.6				
REF. NO.	Q3201			Q3202			Q3203			
MODE	E	C	B	E	C	B	E	C	B	
STOP	1.3	4.8	1.9	0.7	4.9	1.3	1.0	4.9	1.7	
REC	1.3	4.8	1.9	0.7	4.9	1.3	1.0	4.9	1.7	
REF. NO.	Q3204			Q3205			Q3206			
MODE	E	C	B	E	C	B	E	C	B	
STOP	1.0	4.0	1.8	0.5	3.6	1.3	0	0	0	
REC	1.0	4.0	1.8	0.5	3.6	1.3	0	0	0	
REF. NO.	Q3207			Q3208			Q3210			
MODE	E	C	B	E	C	B	E	C	B	
STOP	1.0	3.7	1.8	1.0	3.5	1.7	2.9	4.7	3.5	
REC	1.0	3.7	1.8	1.0	3.5	1.7	2.9	4.7	3.5	
REF. NO.	Q3213						Q3214			
MODE	1	2	3	4	5		E	C	B	
STOP	0	0	0.7	0	0.7		0.9	4.7	1.5	
REC	0	0	0.7	0	0.7		0.9	4.7	1.5	
REF. NO.	Q3216			Q3217			Q3219			
MODE	E	C	B	E	C	B	E	C	B	
STOP	2.7	4.7	2.8	2.1	4.7	2.7	−0.6	4.7	0	
REC	2.7	4.7	2.8	2.1	4.7	2.7	−0.6	4.7	0	
REF. NO.	Q3221			Q3222			Q3223			
MODE	E	C	B	E	C	B	E	C	B	
STOP	3.3	4.8	4.0	1.0	3.5	1.7	0.4	4.7	1.0	
REC	3.3	4.8	4.0	1.0	3.5	1.7	0.4	4.7	1.0	
REF. NO.	QR3201			QR3202						
MODE	E	C	B	E	C	B				
STOP	0	0	0.1	0	3.5	0.1				
REC	0	0	0.1	0	3.5	0.1				

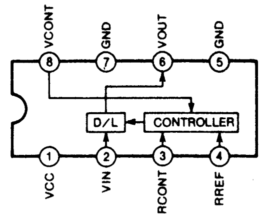
IC3206
AN3296S


16
15
14
13
12
11
10
9
NO. SYNC DETECTOR
HALF-H KILLER
V-SYNC SEPA
V-OSC
SYNC SEPA
AFC CONTROL
H-OSC
P-COM
1
2
3
4
5
6
7
8

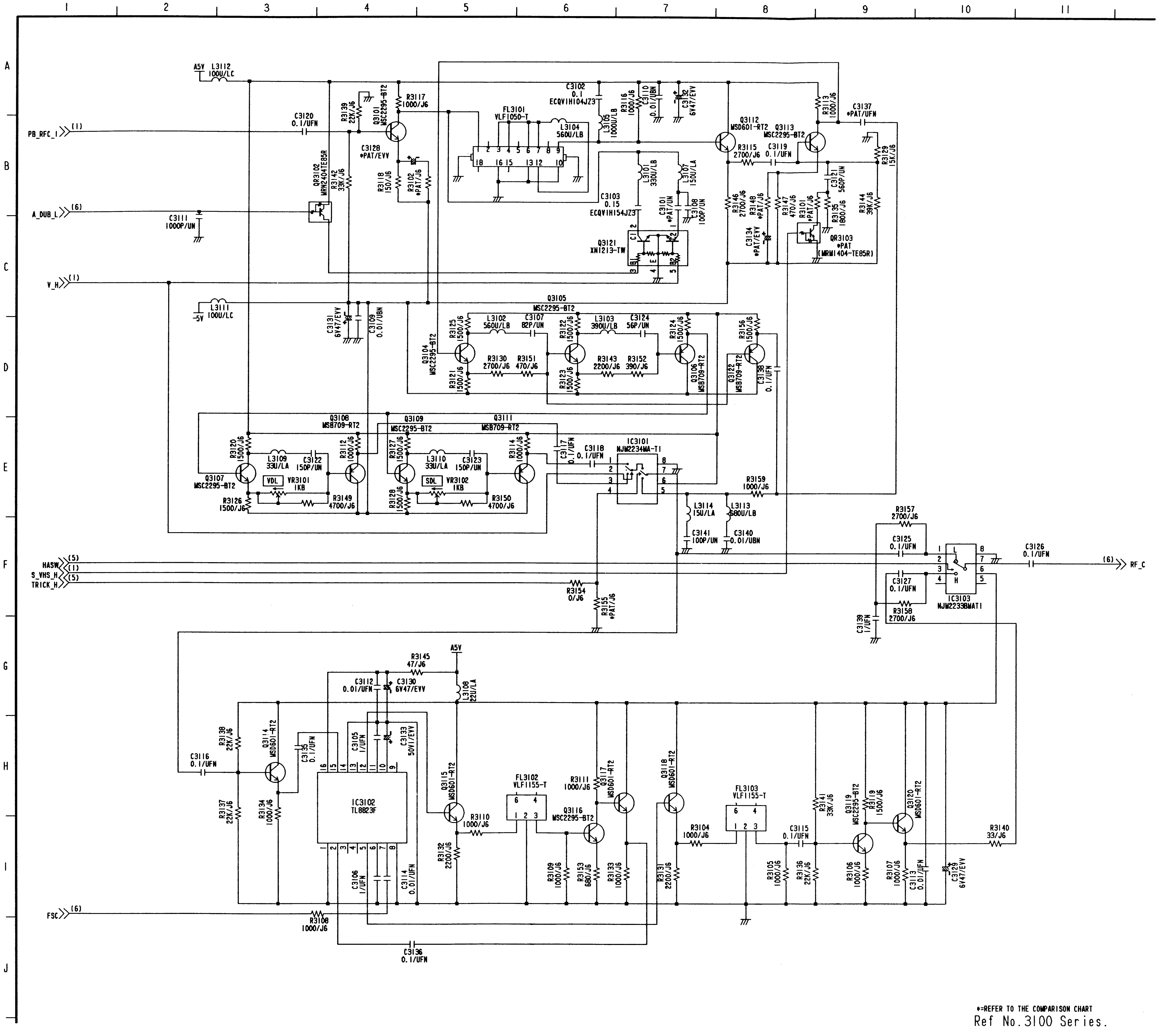
IC3201
NJM592MB



IC3208
TK16031MTL


VCONT
GND
VOUT
GND
8
7
6
5
D/L
CONTROLLER
1
2
3
4
VCC
VIN
RCONT
RREF

VIDEO I/O-2 SCHEMATIC DIAGRAM 2/7 (E5: Page CBA-8)



1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
PB_RFC_I (1)
A_DUB_L (6)
V_H (1)
HASW (5)
S_VHS_H (1)
TRICK_H (5)
FSC (6)
RF_C (6)
A5V
-5V
L3112 100U/LC
L3111 100U/LC
C3120 0.1/UFN
C3111 1000P/UN
QR3102 MRH2404TE85R
R3142 33K/J6
R3139 22K/J6
Q3101 MSC2295-BT2
R3117 1000/J6
C3128 *PAT/EVV
R3118 150/J6
R3102 *PAT/J6
FL3101 VLF1050-T
L3104 560U/LB
C3102 0.1 ECQV1H104JZ3
L3105 1000U/LB
R3116 1000/J6
C3110 0.01/UBN
C3132 6V47/EVV
C3103 0.15 ECQV1H154JZ3
L3101 330U/LB
L3107 150U/LA
C3101 *PAT/UN
C3108 100P/UN
Q3121 XN1213-TW
Q3112 MSD601-RT2
Q3113 MSC2295-BT2
R3113 1000/J6
C3137 *PAT/UFN
R3115 2700/J6
C3119 0.1/UFN
C3121 560P/UN
R3129 15K/J6
R3146 2700/J6
R3148 *PAT/J6
R3147 470/J6
R3101 *PAT/J6
R3135 1800/J6
R3144 39K/J6
C3134 *PAT/EVV
QR3103 *PAT (MRM1404-TE85R)
C3131 6V47/EVV
C3109 0.01/UBN
Q3105 MSC2295-BT2
Q3104 MSC2295-BT2
R3125 1500/J6
L3102 560U/LB
C3107 82P/UN
R3122 1500/J6
L3103 390U/LB
C3124 56P/UN
R3124 1500/J6
R3156 1500/J6
R3130 2700/J6
R3151 470/J6
R3143 2200/J6
R3152 390/J6
Q3106 MSB709-RT2
Q3122 MSB709-RT2
C3138 0.1/UFN
R3121 1500/J6
R3123 1500/J6
Q3108 MSB709-RT2
Q3109 MSC2295-BT2
Q3111 MSB709-RT2
R3120 1500/J6
L3109 33U/LA
C3122 150P/UN
R3112 1000/J6
R3127 1500/J6
L3110 33U/LA
C3123 150P/UN
R3114 1000/J6
Q3107 MSC2295-BT2
VDL VR3101 1KB
SDL VR3102 1KB
R3149 4700/J6
R3150 4700/J6
R3126 1500/J6
R3128 1500/J6
C3117 0.1/UFN
C3118 0.1/UFN
IC3101 NJM2234MA-T1
R3159 1000/J6
L3114 15U/LA
L3113 680U/LB
C3141 100P/UN
C3140 0.01/UBN
R3154 0/J6
R3155 *PAT/J6
R3157 2700/J6
C3125 0.1/UFN
C3127 0.1/UFN
R3158 2700/J6
C3139 1/UFN
IC3103 NJM2233BMAT1
C3126 0.1/UFN
R3145 47/J6
C3112 0.01/UFN
C3130 6V47/EVV
L3108 22U/LA
R3138 22K/J6
Q3114 MSD601-RT2
C3135 0.1/UFN
C3105 1/UFN
C3133 50V1/EVV
C3116 0.1/UFN
R3137 22K/J6
R3134 1000/J6
IC3102 TL8823F
Q3115 MSD601-RT2
R3110 1000/J6
R3132 2200/J6
FL3102 VLF1155-T
R3111 1000/J6
Q3117 MSD601-RT2
Q3116 MSC2295-BT2
Q3118 MSD601-RT2
R3104 1000/J6
FL3103 VLF1155-T
C3115 0.1/UFN
R3141 33K/J6
Q3119 MSC2295-BT2
R3119 1500/J6
Q3120 MSD601-RT2
R3140 33/J6
C3106 1/UFN
C3114 0.01/UFN
R3109 1000/J6
R3153 680/J6
R3133 1000/J6
R3131 2200/J6
R3105 1000/J6
R3136 22K/J6
R3106 1000/J6
R3107 1000/J6
C3113 0.01/UFN
C3129 6V47/EVV
R3108 1000/J6
C3136 0.1/UFN

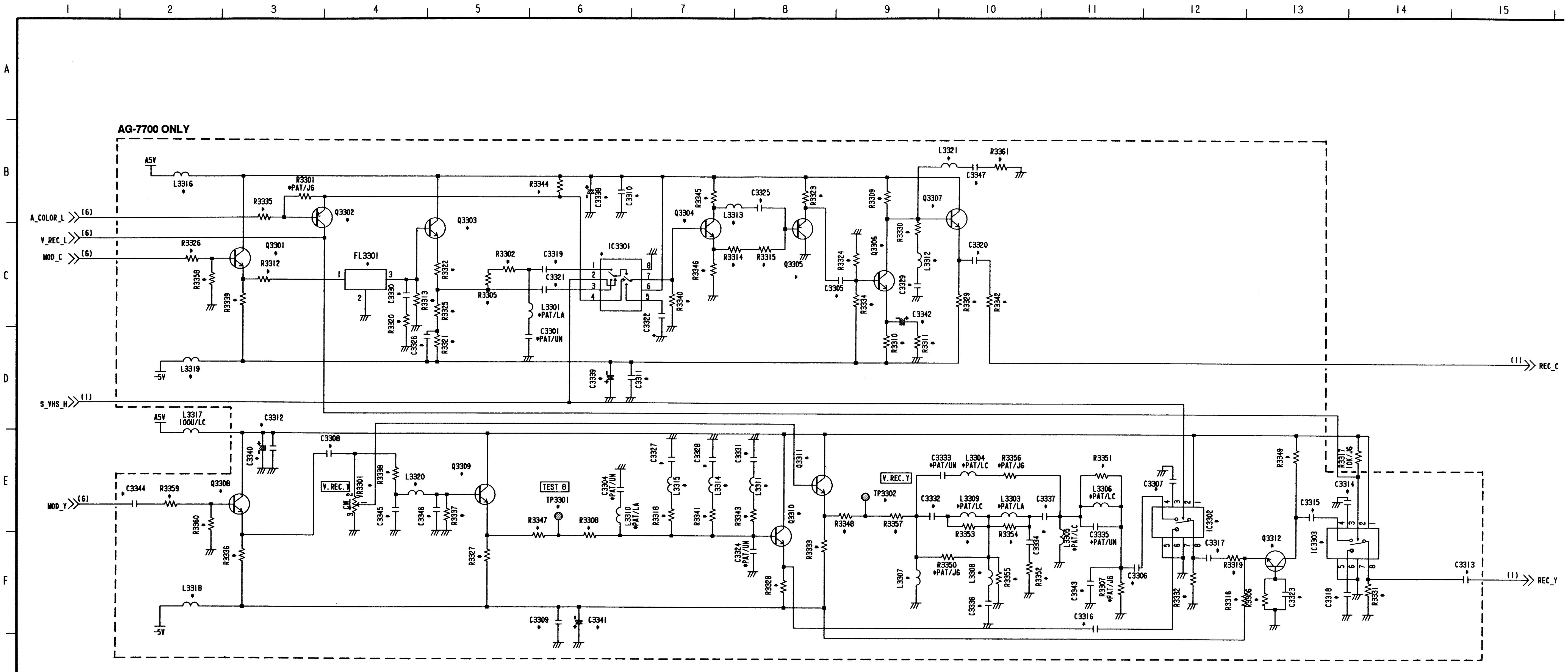
*=REFER TO THE COMPARISON CHART

Ref No.3100 Series.

VIDEO I/O-2 DC VOLTAGE CHART

REF. NO.	IC3101									
MODE	1	2	3	4	5	6	7	8		
STOP	2.8	0	2.8	0	2.8	4.7	2.1	0		
REC	2.8	0	2.8	0	2.8	4.7	2.1	0		
REF. NO.	IC3102									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	2.1	0	0	2.7	1.3	2.2	0	0	9.4
REC	0	2.1	0	0	2.7	1.3	2.2	0	0	9.4
REF. NO.	IC3102									
MODE	11	12	13	14	15	16				
STOP	1.3	2.8	0	0	2.1	4.5				
REC	1.3	2.8	0	0	2.1	4.5				
REF. NO.	IC3103									
MODE	1	2	3	4	5	6	7	8		
STOP	2.9	0	2.9	0	0	4.9	2.2	0		
REC	2.9	0	2.9	0	0	4.9	2.2	0		
REF. NO.	Q3101			Q3104			Q3105			
MODE	E	C	B	E	C	B	E	C	B	
STOP	−3.7	0.9	−2.8	−0.8	0.8	−0.1	−1.6	1.5	−0.9	
REC	−3.7	1.0	−2.9	−0.8	0.8	−0.1	−1.6	1.5	−0.9	
REF. NO.	Q3106			Q3107			Q3108			
MODE	E	C	B	E	C	B	E	C	B	
STOP	−0.9	−4.8	−1.6	−1.7	1.6	−0.9	−1.0	−4.8	−1.7	
REC	−0.9	−4.8	−1.6	−1.7	1.6	−0.9	−1.0	−4.8	−1.7	
REF. NO.	Q3109			Q3111			Q3112			
MODE	E	C	B	E	C	B	E	C	B	
STOP	−1.7	1.6	−0.9	−1.0	−4.8	−1.7	0.3	4.7	0.9	
REC	−1.7	1.6	−0.9	−1.0	−4.8	−1.6	0.3	4.7	0.9	
REF. NO.	Q3113			Q3114			Q3115			
MODE	E	C	B	E	C	B	E	C	B	
STOP	−2.6	−0.1	−1.8	1.8	4.9	2.4	2.2	4.9	2.8	
REC	−2.6	−0.1	−1.8	1.8	4.9	2.4	2.2	4.9	2.8	
REF. NO.	Q3116			Q3117			Q3118			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0.4	4.3	1.1	3.7	4.9	4.3	2.2	4.9	2.8	
REC	0.4	4.3	1.1	3.7	4.9	4.3	2.2	4.9	2.8	
REF. NO.	Q3119			Q3120						
MODE	E	C	B	E	C	B				
STOP	1.1	3.2	1.8	2.6	4.9	3.2				
REC	1.1	3.2	1.8	2.6	4.9	3.2				
REF. NO.	Q3121						Q3122			
MODE	1	2	3	4	5		E	C	B	
STOP	0	0	0	0	0		−0.2	−4.8	−0.9	
REC	0	0	0	0	0		−0.2	−4.8	−0.9	
REF. NO.	QR3102									
MODE	E	C	B							
STOP	4.7	0	4.7							
REC	4.7	0	4.7							

VIDEO I/O-4 SCHEMATIC DIAGRAM 4/7 (E5: Page CBA-8)

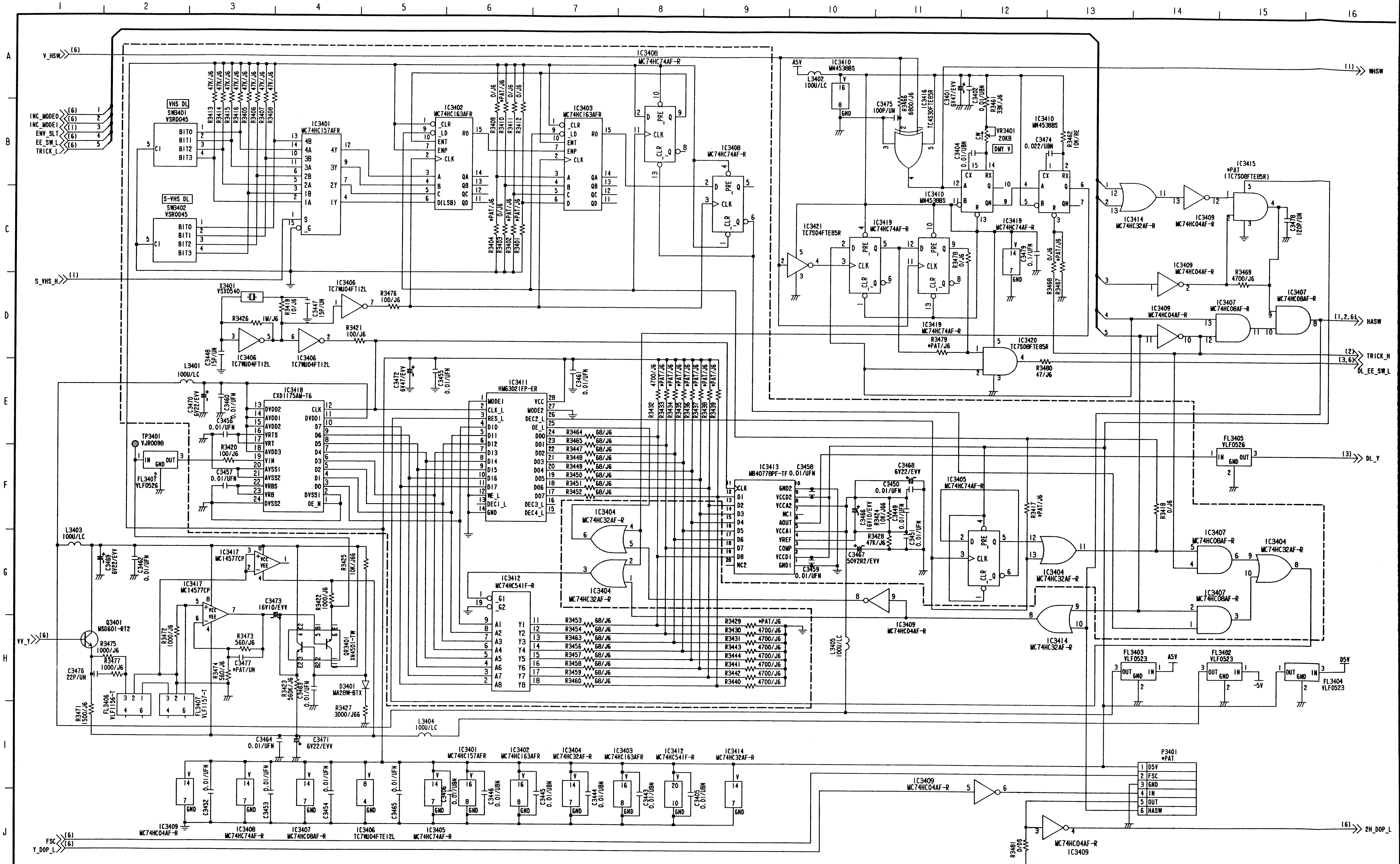

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
AG-7700 ONLY
A5V
L3316
R3301
*PAT/J6
R3335
Q3302
Q3303
R3344
C3338
C3310
R3345
C3325
R3323
R3309
Q3307
L3321
R3361
C3347
A_COLOR_L
V_REC_L
MOD_C
(6)
R3326
Q3301
R3312
R3358
R3339
FL3301
R3302
C3319
IC3301
C3321
R3305
L3301
*PAT/LA
C3301
*PAT/UN
R3322
R3313
R3325
R3320
C3330
C3326
R3321
C3322
R3340
R3346
Q3304
L3313
R3314
R3315
Q3305
R3324
Q3306
R3330
C3305
R3334
C3329
L3312
C3342
R3310
R3311
C3320
R3329
R3342
L3319
-5V
C3339
C3311
(1)
REC_C
S_VHS_H
L3317
100U/LC
C3312
C3308
C3340
MOD_Y
C3344
R3359
Q3308
R3360
R3336
V.REC.Y
VR3301
R3338
C3345
L3320
C3346
R3337
Q3309
R3327
TEST B
TP3301
R3347
R3308
C3304
*PAT/UN
L3310
*PAT/LA
C3327
L3315
R3318
C3328
L3314
R3341
C3331
L3311
R3343
C3324
*PAT/UN
Q3310
Q3311
R3328
R3333
V.REC.Y
TP3302
R3348
R3357
C3333
*PAT/UN
L3304
*PAT/LC
R3356
*PAT/J6
C3332
L3309
*PAT/LC
L3303
*PAT/LA
C3337
R3353
R3354
R3350
*PAT/J6
L3307
L3308
R3355
R3352
C3334
L3305
*PAT/LC
C3336
R3351
L3306
*PAT/LC
C3335
*PAT/UN
C3343
R3307
*PAT/J6
C3306
C3316
C3307
IC3302
C3317
R3319
R3332
Q3312
R3349
R3316
R3306
C3323
R3317
10K/J6
C3314
C3315
IC3303
C3318
R3331
C3313
REC_Y
L3318
C3309
C3341

*=REFER TO THE COMPARISON CHART
Ref No.3300 Series.

VIDEO I/O-4 DC VOLTAGE CHART

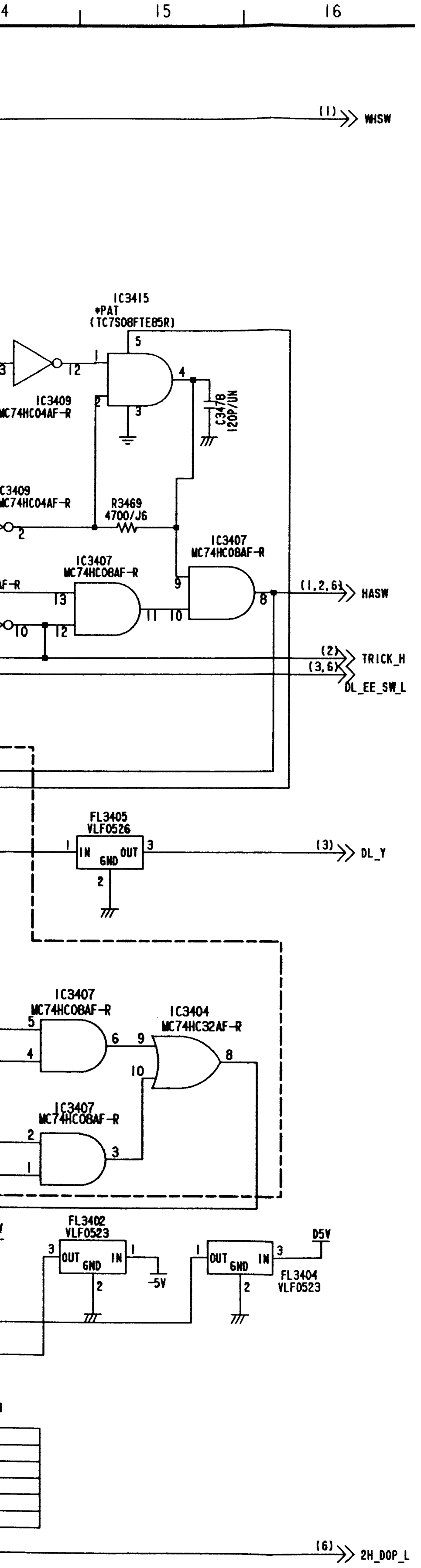
REF. NO.	IC3301										IC3302									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
STOP	2.9	4.9	2.9	3.7	2.9	4.8	2.2	0			4.9	4.9	2.4	2.5	0	2.5	0	2.5		
REC	2.9	4.9	2.9	0.7	2.9	4.8	2.2	0			4.9	4.9	2.4	2.5	0	2.5	0	2.5		
REF. NO.	IC3303																			
MODE	1	2	3	4	5	6	7	8												
STOP	4.9	3.7	2.4	2.5	0	2.5	0	2.5												
REC	4.9	0.1	2.4	2.5	0	2.5	0	2.5												
REF. NO.	Q3301			Q3302			Q3303			Q3304			Q3305			Q3306				
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B		
STOP	−0.7	4.8	−0.1	3.7	3.7	3.1	−1.0	4.8	−0.4	1.4	3.4	2.2	2.1	0	1.4	−2.7	2.6	−2.1		
REC	−0.7	4.8	−0.1	0.7	0.1	0.1	−1.0	4.8	−0.4	1.4	3.4	2.2	2.1	0	1.4	−2.7	2.6	−2.1		
REF. NO.	Q3307			Q3308			Q3309			Q3310			Q3311			Q3312				
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B		
STOP	2.0	4.8	2.6	−0.5	4.9	−0.1	−0.6	4.9	0	−1.2	4.9	−0.6	−0.5	4.9	0	−0.8	1.5	0		
REC	2.0	4.8	2.6	−0.5	4.9	−0.1	−0.6	4.8	0	−1.2	4.9	−0.6	−0.5	4.9	0	−0.8	1.5	0		

VIDEO I/O-5 SCHEMATIC DIAGRAM 5/7 (E5: Page CBA-8)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
V_HSW (6)
INC_MODE0 (6)
INC_MODE1 (6)
ENV_SLT (1)
EE_SW_L (6)
TRICK_L (6)
S_VHS_H (1)
VV_Y (6)
FSC (6)
Y_DOP_L (6)
(1) WHSW
(1,2,6) HASW
(2) TRICK_H
(3,6) DL_EE_SW_L
(3) DL_Y
(6) 2H_DOP_L
VHS DL
SW3401
VSR0045
S-VHS DL
SW3402
VSR0045
IC3401
MC74HC157AFR
IC3402
MC74HC163AFR
IC3403
MC74HC163AFR
IC3408
MC74HC74AF-R
IC3410
MN4538BS
IC3416
TC4S30FTE85R
VR3401
20KB
DMY V
IC3415
*PAT
(TC7S08FTE85R)
IC3414
MC74HC32AF-R
IC3409
MC74HC04AF-R
IC3421
TC7S04FTE85R
IC3419
MC74HC74AF-R
IC3420
TC7S08FTE85R
IC3407
MC74HC08AF-R
IC3406
TC7WU04FT12L
X3401
VSX0540
IC3418
CXD1175AM-T6
IC3411
HM63021FP-ER
IC3412
MC74HC541F-R
IC3413
MB40778PF-TF
IC3404
MC74HC32AF-R
IC3405
MC74HC74AF-R
IC3417
MC14577CP
Q3401
MSD601-RT2
QR3401
XN4501-TW
D3401
MA28W-BTX
TP3401
VJR0098
FL3401
VLF0526
FL3405
VLF0526
FL3403
VLF0523
FL3402
VLF0523
FL3404
VLF0523
FL3406
VLF1156-T
FL3407
VLF1157-T
L3401
100U/LC
L3402
100U/LC
L3403
100U/LC
L3404
100U/LC
L3405
100U/LC
P3401
*PAT
D5V
FSC
GND
IN
OUT
HASW
A5V
D5V
-5V

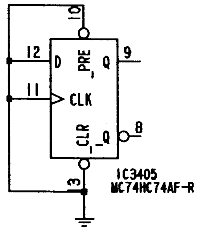
*=REFER TO THE COMPARISON CHART

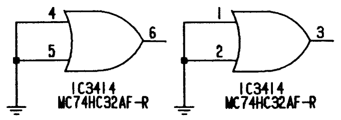
Ref No.3400 Series.


4
15
16
(1) WHSW
IC3415
*PAT
(TC7S08FTE85R)
IC3409
MC74HC04AF-R
C3478
120P/UN
IC3409
MC74HC04AF-R
R3469
4700/J6
IC3407
MC74HC08AF-R
IC3407
MC74HC08AF-R
(1,2,6) HASW
(2) TRICK_H
(3,6) DL_EE_SW_L
FL3405
VLF0526
IN
GND
OUT
(3) DL_Y
IC3407
MC74HC08AF-R
IC3404
MC74HC32AF-R
IC3407
MC74HC08AF-R
FL3402
VLF0523
OUT
GND
IN
-5V
OUT
GND
IN
D5V
FL3404
VLF0523
(6) 2H_DOP_L

*=REFER TO THE COMPARISON CHART

Ref No.3400 Series.


10
12
11
D
PRE
Q
9
CLK
CLR
Q
8
3
IC3405
MC74HC74AF-R


4
5
6
IC3414
MC74HC32AF-R
1
2
3
IC3414
MC74HC32AF-R

VIDEO I/O-5 DC VOLTAGE CHART

REF. NO.	IC3401															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	4.9	0	0	0	0	0	0	0	5.1	5.1	5.1	5.1	5.1	5.1	0	5.1
REC	4.9	0	0	0	0	0	0	0	5.1	5.1	5.1	5.1	5.1	5.1	0	5.1

REF. NO.	IC3402															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	5.1	2.6	5.1	5.1	0	0	5.1	0	5.1	0.1	0	0	0	5.1	0	5.1
REC	5.1	2.6	5.1	5.1	0	0	5.1	0	5.1	0	0	0	0	5.1	0	5.1

REF. NO.	IC3403															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	5.1	2.6	5.1	0	5.1	5.1	0	0	5.1	0.1	5.1	5.1	5.1	5.1	0	5.1
REC	5.1	2.6	5.1	0	5.1	5.1	0	0	5.1	0.1	5.1	5.1	5.1	5.1	0	5.1

REF. NO.	IC3404													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
STOP	5.1	0	5.1	0	0	0	0	5.1	0	5.1	5.1	2.6	3.9	5.1
REC	5.1	0	5.1	0	0	0	0	5.1	0	5.1	5.1	2.4	3.9	5.1

REF. NO.	IC3405													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
STOP	5.1	2.5	3.9	5.1	2.6	2.5	0	5.1	5.1	0	0	0	0	5.1
REC	5.1	2.7	3.9	5.1	2.5	2.7	0	5.1	5.1	0	0	0	0	5.1

REF. NO.	IC3406							
MODE	1	2	3	4	5	6	7	8
STOP	2.6	2.6	2.4	0	2.6	2.5	2.5	5.1
REC	2.6	2.6	2.4	0	2.6	2.6	2.6	5.1

REF. NO.	IC3407													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
STOP	5.1	3.4	5.1	0	5.1	0	0	0	2.6	0	0	0	0	5.1
REC	5.1	3.4	5.1	0	5.1	0	0	0	5.1	0	0	0	0	5.1

REF. NO.	IC3408													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
STOP	5.1	0	2.6	5.1	0	5.1	0	5.1	0.1	5.1	5.1	5.1	5.1	5.1
REC	5.1	0	2.6	5.1	0	5.1	0	5.1	0.1	5.1	5.1	5.1	5.1	5.1

REF. NO.	IC3409													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
STOP	2.4	2.6	0	5.2	0	5.2	0	0	5.2	0	3.4	5.2	0	5.2
REC	0.1	5.1	0	5.1	0	5.1	0	0	5.1	0	3.4	5.1	0	5.1

REF. NO.	IC3410															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	0	4.9	0	4.8	4.9	0	4.9	0	4.8	0.1	4.9	0	4.9	4.9	0	4.9
REC	0	4.9	0	4.8	4.9	0	4.9	0	4.8	0.1	4.9	0	4.9	4.9	0	4.9

REF. NO.	IC3411																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	2.6	5.1	0.1	0	0	0	4.8	0	0	0	0	3.9	0	4.0	4.0	0	0	0	3.6
REC	0	2.6	5.1	0.3	0	0	0	4.8	0	0	0	0	3.9	0	4.0	4.0	0	0	0	3.6

REF. NO.	IC3411							
MODE	21	22	23	24	25	26	27	28
STOP	0	0	0	0.3	0	3.9	0	5.1
REC	0	0	0	0.8	0	3.9	0	5.1

REF. NO.	IC3412																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	5.1	0	0	0	4.8	0	0	0	0	0	0.3	0	0	0	3.6	0	0	0	0	5.1
REC	5.1	0	0	0	4.8	0	0	0	0.1	0	0.3	0	0	0	3.6	0	0	0	0	5.1

REF. NO.	IC3413																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	5.1	2.3	4.0	4.9	4.0	0	4.9	5.1	0	2.6	0	0	0	3.6	0	0	0	0.4	0
REC	0	5.1	2.3	4.0	4.9	4.0	0	4.9	5.1	0	2.6	0	0	0	3.6	0	0	0	0	0

REF. NO.	IC3414													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
STOP	0	0	0	0	0	0	0	5.2	3.4	0	0	0	0	5.2
REC	0	0	0	0	0	0	0	5.1	3.4	0	0	0	0	5.1

REF. NO.	IC3416										IC3417							
MODE	1	2	3	4	5						1	2	3	4	5	6	7	8
STOP	2.5	2.5	0	0	4.9						3.1	0	0	−4.8	0	0.1	0.3	4.8
REC	2.5	2.5	0	0	4.9						3.1	0	0	−4.8	0	0.1	0.3	4.8

REF. NO.	IC3418																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0.4	0.3	0.4	0.4	3.9	0	0	0	4.8	2.6	4.8	4.9	4.9	2.6	2.6	4.9	0.8	0
REC	0	0	0	0	0	0	4.8	0	0	0	4.8	2.6	4.8	4.8	4.8	2.6	2.6	4.8	0.8	0

REF. NO.	IC3418			
MODE	21	22	23	24
STOP	0	0.6	0.6	0
REC	0	0.6	0.6	0

REF. NO.	IC3419									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	4.9	0	2.5	4.9	0	4.9	0	4.9	0	4.9
REC	4.9	0	2.5	4.9	0	4.9	0	4.9	0	4.9

REF. NO.	IC3419			
MODE	11	12	13	14
STOP	2.5	0	4.9	4.9
REC	2.5	0	4.9	4.9

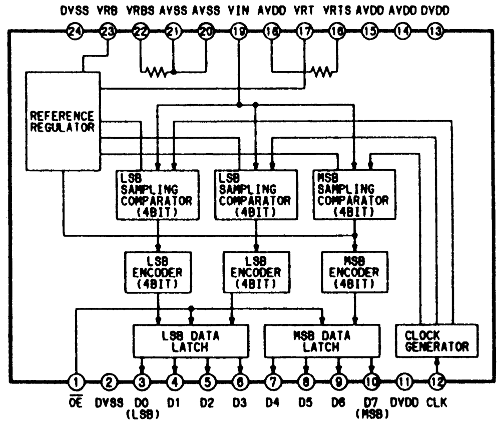
REF. NO.	IC3420					IC3421				
MODE	1	2	3	4	5	1	2	3	4	5
STOP	0	0	0	0	4.9	0	2.5	0	2.5	4.9
REC	0	0	0	0	4.9	0	2.5	0	2.5	4.9

REF. NO.	Q3401		
MODE	E	C	B
STOP	0.3	4.8	0.9
REC	0.3	4.8	0.9

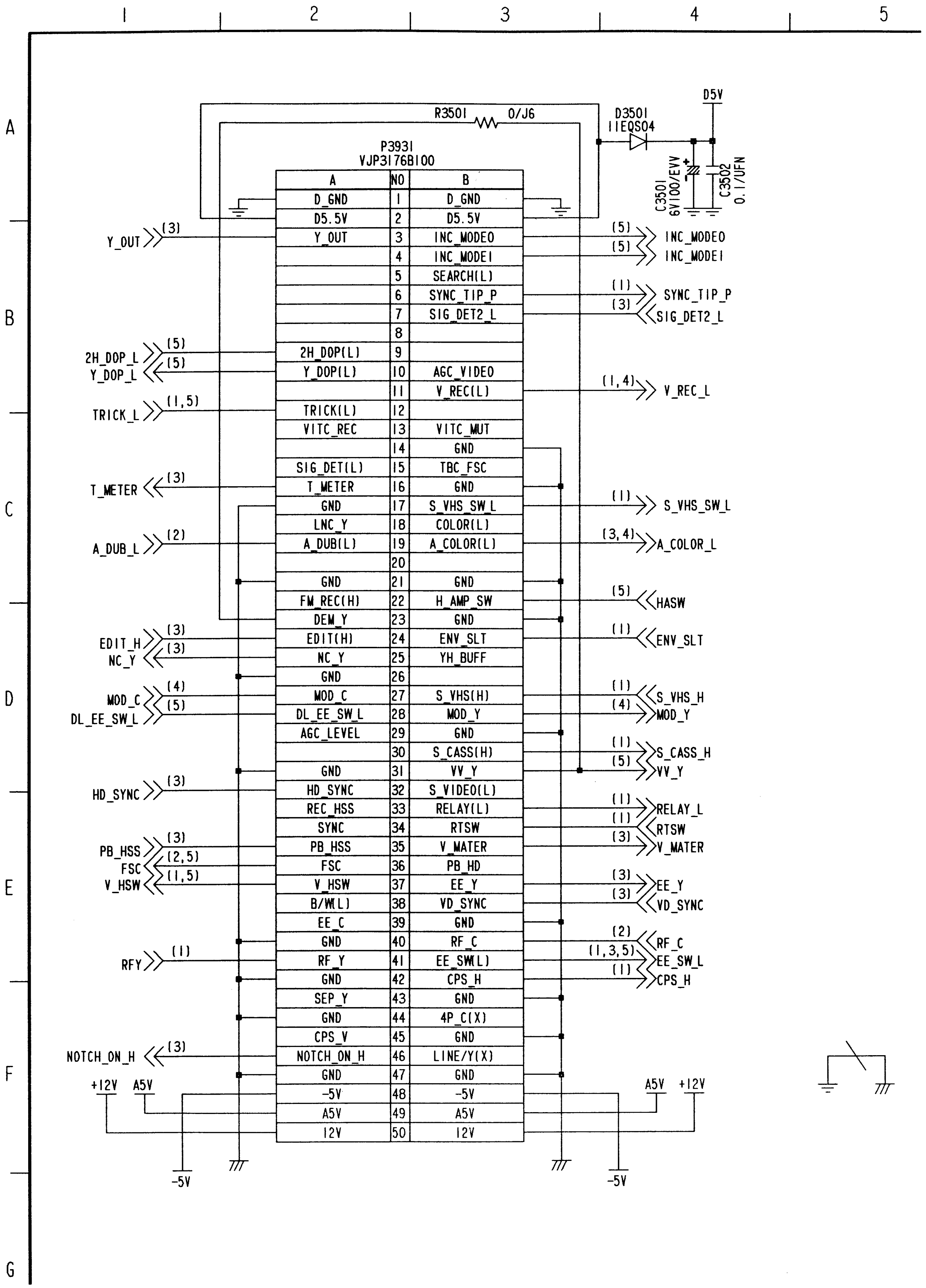
REF. NO.	QR3401					
MODE	1	2	3	4	5	6
STOP	4.8	1.9	1.4	4.8	1.4	0.8
REC	4.8	1.9	1.4	4.8	1.4	0.8

IC3418

CXD1175AM


DVSS
VRB
VRBS
AVSS
AVSS
VIN
AVDD
VRT
VRTS
AVDD
AVDD
DVDD
24
23
22
21
20
19
18
17
16
15
14
13
REFERENCE REGULATOR
LSB SAMPLING COMPARATOR (4BIT)
LSB SAMPLING COMPARATOR (4BIT)
MSB SAMPLING COMPARATOR (4BIT)
LSB ENCODER (4BIT)
LSB ENCODER (4BIT)
MSB ENCODER (4BIT)
LSB DATA LATCH
MSB DATA LATCH
CLOCK GENERATOR
1
2
3
4
5
6
7
8
9
10
11
12
OE
DVSS
D0 (LSB)
D1
D2
D3
D4
D5
D6
D7 (MSB)
DVDD
CLK

VIDEO I/O-6 SCHEMATIC DIAGRAM 6/7 (E5: Page CBA-8)


1
2
3
4
5
A
B
C
D
E
F
G
R3501 0/J6
D3501 11EQS04
D5V
C3501 6V100/EVV
C3502 0.1/UFN
P3931
VJP3176B100
A NO B
D_GND 1 D_GND
D5.5V 2 D5.5V
Y_OUT 3 INC_MODE0
4 INC_MODE1
5 SEARCH(L)
6 SYNC_TIP_P
7 SIG_DET2_L
8
2H_DOP(L) 9
Y_DOP(L) 10 AGC_VIDEO
11 V_REC(L)
TRICK(L) 12
VITC_REC 13 VITC_MUT
14 GND
SIG_DET(L) 15 TBC_FSC
T_METER 16 GND
GND 17 S_VHS_SW_L
LNC_Y 18 COLOR(L)
A_DUB(L) 19 A_COLOR(L)
20
GND 21 GND
FM_REC(H) 22 H_AMP_SW
DEM_Y 23 GND
EDIT(H) 24 ENV_SLT
NC_Y 25 YH_BUFF
GND 26
MOD_C 27 S_VHS(H)
DL_EE_SW_L 28 MOD_Y
AGC_LEVEL 29 GND
30 S_CASS(H)
GND 31 VV_Y
HD_SYNC 32 S_VIDEO(L)
REC_HSS 33 RELAY(L)
SYNC 34 RTSW
PB_HSS 35 V_MATER
FSC 36 PB_HD
V_HSW 37 EE_Y
B/W(L) 38 VD_SYNC
EE_C 39 GND
GND 40 RF_C
RF_Y 41 EE_SW(L)
GND 42 CPS_H
SEP_Y 43 GND
GND 44 4P_C(X)
CPS_V 45 GND
NOTCH_ON_H 46 LINE/Y(X)
GND 47 GND
-5V 48 -5V
A5V 49 A5V
12V 50 12V
Y_OUT (3)
2H_DOP_L (5)
Y_DOP_L (5)
TRICK_L (1,5)
T_METER (3)
A_DUB_L (2)
EDIT_H (3)
NC_Y (3)
MOD_C (4)
DL_EE_SW_L (5)
HD_SYNC (3)
PB_HSS (3)
FSC (2,5)
V_HSW (1,5)
RFY (1)
NOTCH_ON_H (3)
+12V
A5V
-5V
(5) INC_MODE0
(5) INC_MODE1
(1) SYNC_TIP_P
(3) SIG_DET2_L
(1,4) V_REC_L
(1) S_VHS_SW_L
(3,4) A_COLOR_L
(5) HASW
(1) ENV_SLT
(1) S_VHS_H
(4) MOD_Y
(1) S_CASS_H
(5) VV_Y
(1) RELAY_L
(1) RTSW
(3) V_MATER
(3) EE_Y
(3) VD_SYNC
(2) RF_C
(1,3,5) EE_SW_L
(1) CPS_H
A5V
+12V
-5V

VIDEO I/O COMPARISON CHART 7/7 (E5: Page CBA-8)

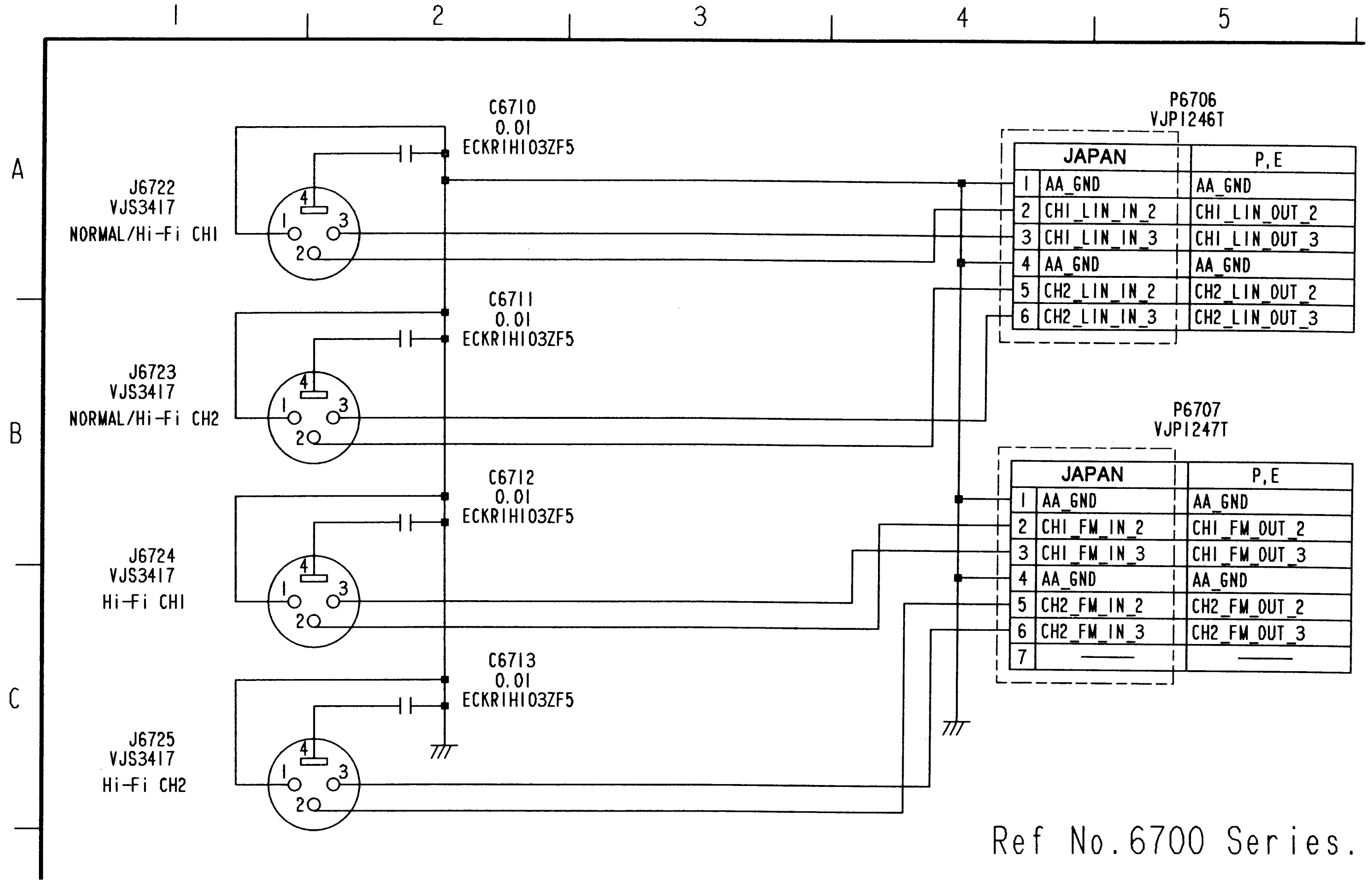
REF	AG-7700	AG-7600
C3334	10P/UN	*PAT/UN
C3335	*PAT/UFN	*PAT/UFN
C3336	180P/UN	*PAT/UN
C3337	0.01/UFN	*PAT/UFN
C3338	6V47/EVV	*PAT/EVV
C3339	6V47/EVV	*PAT/EVV
C3340	6V47/EVV	*PAT/EVV
C3341	6V47/EVV	*PAT/EVV
C3342	50V3R3/EVV	*PAT/EVV
C3343	18P/UN	*PAT/UN
C3344	0.01/UBN	*PAT/UBN
C3345	33P/UN	*PAT/UN
C3346	33P/UN	*PAT/UN
C3347	68P/UN	*PAT/UN
C3477	*PAT/UN	*PAT/UN
D3001	MA151K-TW	*PAT
D3004	*PAT	*PAT
D3005	*PAT	*PAT
D3205	*PAT	*PAT
FL3301	ELB4H068	*PAT
IC3008	*PAT	*PAT
IC3009	*PAT	*PAT
IC3301	NJM2234MA-T1	*PAT
IC3302	AN6308S	*PAT
IC3303	AN6308S	*PAT
IC3415	*PAT	*PAT
L3005	*PAT/LA	*PAT/LA
L3212	*PAT/LA	*PAT/LA
L3301	*PAT/LA	*PAT/LA
L3303	*PAT/LA	*PAT/LA
L3304	*PAT/LC	*PAT/LC
L3305	*PAT/LC	*PAT/LC
L3306	*PAT/LC	*PAT/LC
L3307	82U/LA	*PAT/LA
L3308	150U/LA	*PAT/LA
L3309	*PAT/LC	*PAT/LC
L3310	*PAT/LA	*PAT/LA
L3311	100U/LA	*PAT/LA
L3312	220U/LA	*PAT/LA
L3313	220U/LA	*PAT/LA
L3314	4R7U/LA	*PAT/LA
L3315	6R8U/LA	*PAT/LA
L3316	100U/LC	*PAT/LC
L3318	100U/LC	*PAT/LC
L3319	100U/LC	*PAT/LC
L3320	6R8U/LA	*PAT/LA
L3321	150U/LA	*PAT/LA
Q3003	2SB643-QRS	*PAT
Q3301	MSD601-RT2	*PAT
Q3302	MSB709-RT2	*PAT
Q3303	MSD601-RT2	*PAT
Q3304	MSC2295-BT2	*PAT
Q3305	MSB709-RT2	*PAT
Q3306	MSD601-RT2	*PAT
Q3307	MSD601-RT2	*PAT
Q3308	MSD601-RT2	*PAT
Q3309	MSD601-RT2	*PAT
Q3310	MSD601-RT2	*PAT
Q3311	MSD601-RT2	*PAT
Q3312	MSC2295-BT2	*PAT
QR3001	MRN2404TE85R	*PAT
QR3002	DTC363EK-T97	*PAT
QR3011	MRN1404TE85R	*PAT
QR3012	*PAT	*PAT
QR3013	*PAT	*PAT
QR3103	*PAT	*PAT
P3401	*PAT	*PAT
R3005	3300/J6	*PAT/J6
R3006	22K/J6	*PAT/J6
R3007	3300/J6	*PAT/J6
R3008	3300/J6	*PAT/J6
R3014	*PAT/J6	*PAT/J6
R3017	*PAT/J6	*PAT/J6
R3035	*PAT/J6	*PAT/J6
R3043	*PAT/J6	*PAT/J6
R3063	*PAT/J6	*PAT/J6
R3076	*PAT/J6	*PAT/J6
R3078	*PAT/J6	*PAT/J6
R3087	*PAT/J6	*PAT/J6
R3088	*PAT/J6	*PAT/J6
R3101	*PAT/J6	*PAT/J6
R3102	*PAT/J6	*PAT/J6
R3148	*PAT/J6	*PAT/J6
R3155	*PAT/J6	*PAT/J6
R3251	*PAT/J6	*PAT/J6
R3253	*PAT/J6	*PAT/J6
R3265	*PAT/J6	*PAT/J6
R3284	*PAT/J6	*PAT/J6
R3300	1M/J6	1/UFN
R3301	*PAT/J6	*PAT/J6
R3302	0/J6	*PAT/J6
R3305	0/J6	*PAT/J6
R3306	100/J6	*PAT/J6
R3307	*PAT/J6	*PAT/J6
R3308	1200/J6	*PAT/J6
R3309	1000/J6	*PAT/J6
R3310	1000/J6	*PAT/J6
R3311	390/J6	*PAT/J6
R3312	1000/J6	*PAT/J6
R3313	1000/J6	*PAT/J6
R3314	1000/J6	*PAT/J6
R3315	1000/J6	*PAT/J6
R3316	1000/J6	*PAT/J6
R3318	100/J6	*PAT/J6
R3319	220/J6	*PAT/J6
R3320	620/J6	*PAT/J6
R3321	1500/J6	*PAT/J6
R3322	0/J6	*PAT/J6
R3323	1500/J6	*PAT/J6
R3324	15K/J6	*PAT/J6
R3325	220/J6	*PAT/J6
R3326	220/J6	*PAT/J6
R3327	2200/J6	*PAT/J6
R3328	2200/J6	*PAT/J6
R3329	2200/J6	*PAT/J6
R3330	2200/J6	*PAT/J6
R3331	2200/J6	*PAT/J6
R3332	2200/J6	*PAT/J6
R3333	2200/J6	*PAT/J6
R3334	22K/J6	*PAT/J6
R3335	22K/J6	*PAT/J6
R3336	1500/J6	*PAT/J6
R3337	330/J6	*PAT/J6
R3338	330/J6	*PAT/J6
R3339	1500/J6	*PAT/J6
R3340	3300/J6	*PAT/J6
R3341	510/J6	*PAT/J6
R3342	47/J6	*PAT/J6
R3343	330/J6	*PAT/J6
R3344	4700/J6	*PAT/J6
R3345	680/J6	*PAT/J6

F$	AG-7700	AG-7600
53	*PAT/J6	*PAT/J6
65	*PAT/J6	*PAT/J6
84	*PAT/J6	*PAT/J6
00	1M/J6	1/UFN
01	*PAT/J6	*PAT/J6
02	0/J6	*PAT/J6
05	0/J6	*PAT/J6
06	100/J6	*PAT/J6
07	*PAT/J6	*PAT/J6
08	1200/J6	*PAT/J6
09	1000/J6	*PAT/J6
10	1000/J6	*PAT/J6
11	390/J6	*PAT/J6
12	1000/J6	*PAT/J6
13	1000/J6	*PAT/J6
14	1000/J6	*PAT/J6
15	1000/J6	*PAT/J6
16	1000/J6	*PAT/J6
18	100/J6	*PAT/J6
19	220/J6	*PAT/J6
20	620/J6	*PAT/J6
21	1500/J6	*PAT/J6
22	0/J6	*PAT/J6
23	1500/J6	*PAT/J6
24	15K/J6	*PAT/J6
25	220/J6	*PAT/J6
26	220/J6	*PAT/J6
27	2200/J6	*PAT/J6
28	2200/J6	*PAT/J6
29	2200/J6	*PAT/J6
0	2200/J6	*PAT/J6
1	2200/J6	*PAT/J6
2	2200/J6	*PAT/J6
3	2200/J6	*PAT/J6
4	22K/J6	*PAT/J6
5	22K/J6	*PAT/J6
6	1500/J6	*PAT/J6
7	330/J6	*PAT/J6
8	330/J6	*PAT/J6
9	1500/J6	*PAT/J6
0	3300/J6	*PAT/J6
1	510/J6	*PAT/J6
2	47/J6	*PAT/J6
3	330/J6	*PAT/J6
4	4700/J6	*PAT/J6
5	680/J6	*PAT/J6

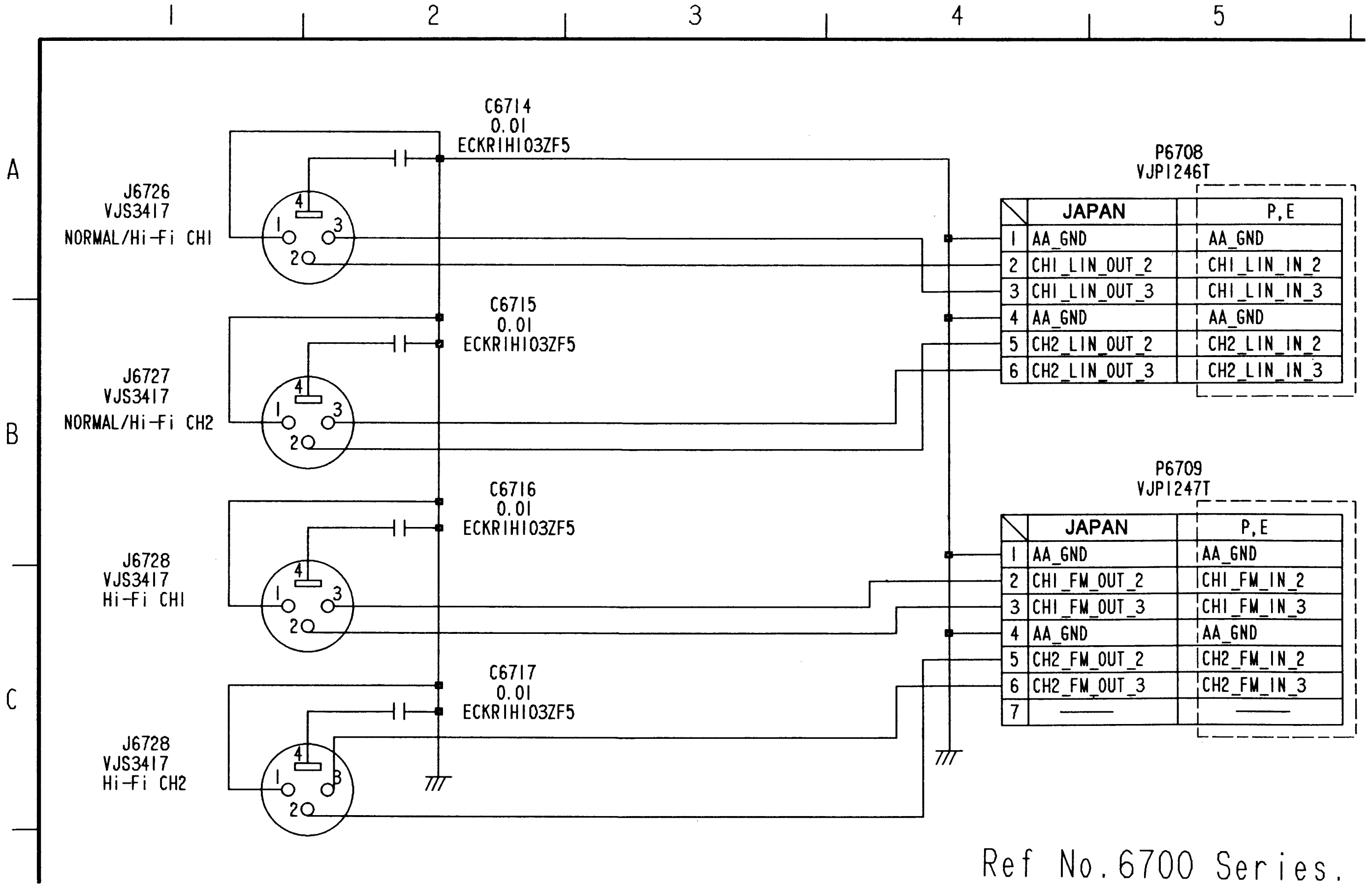
REF	AG-7700	AG-7600
R3346	680/J6	*PAT/J6
R3347	82/J6	*PAT/J6
R3348	82/J6	*PAT/J6
R3349	820/J6	*PAT/J6
R3350	*PAT/J6	*PAT/J6
R3351	0/J6	*PAT/J6
R3352	680/J6	*PAT/J6
R3353	0/J6	*PAT/J6
R3354	2200/J6	*PAT/J6
R3355	1000/J6	*PAT/J6
R3356	*PAT/J6	*PAT/J6
R3357	560/J6	*PAT/J6
R3358	10K/J6	*PAT/J6
R3359	220/J6	*PAT/J6
R3360	10K/J6	*PAT/J6
R3361	1800/J6	*PAT/J6
R3401	*PAT/J6	*PAT/J6
R3402	*PAT/J6	*PAT/J6
R3404	*PAT/J6	*PAT/J6
R3410	*PAT/J6	*PAT/J6
R3417	*PAT/J6	*PAT/J6
R3429	*PAT/J6	*PAT/J6
R3433	*PAT/J6	*PAT/J6
R3434	*PAT/J6	*PAT/J6
R3435	*PAT/J6	*PAT/J6
R3436	*PAT/J6	*PAT/J6
R3437	*PAT/J6	*PAT/J6
R3438	*PAT/J6	*PAT/J6
R3439	*PAT/J6	*PAT/J6
R3467	*PAT/J6	*PAT/J6
R3479	*PAT/J6	*PAT/J6
R3502	*PAT/J6	*PAT/J6
R3503	*PAT/J6	*PAT/J6
TP3301	VJR0098	*PAT
TP3302	VJR0098	*PAT
VR3301	2KB	*PAT

REF	AG-7700	AG-7600
C3004	0.022/UBN	*PAT/UBN
C3005	50VR47/EVV	*PAT/EVV
C3031	*PAT/UN	*PAT/UN
C3036	*PAT/UN	*PAT/UN
C3052	6V22/EVV	*PAT/EVV
C3082	*PAT/UN	*PAT/UN
C3084	*PAT/UFN	*PAT/UFN
C3101	*PAT/UFN	*PAT/UFN
C3128	*PAT/EVV	*PAT/EVV
C3134	*PAT/EVV	*PAT/EVV
C3137	*PAT/UFN	*PAT/UFN
C3222	*PAT/UN	*PAT/UN
C3238	25V4R7/EVN	*PAT/EVN
C3262	*PAT/UN	*PAT/UN
C3263	*PAT/UN	*PAT/UN
C3301	*PAT/UFN	*PAT/UFN
C3304	*PAT	*PAT
C3305	0.1/UFN	*PAT/UFN
C3306	0.01/UBN	*PAT/UBN
C3307	0.01/UBN	*PAT/UBN
C3308	0.01/UBN	*PAT/UBN
C3309	0.01/UBN	*PAT/UBN
C3310	0.01/UBN	*PAT/UBN
C3311	0.01/UBN	*PAT/UBN
C3312	0.01/UBN	*PAT/UBN
C3313	0.01/UBN	*PAT/UBN
C3314	0.01/UBN	*PAT/UBN
C3315	0.01/UBN	*PAT/UBN
C3316	0.01/UBN	*PAT/UBN
C3317	0.01/UBN	*PAT/UBN
C3318	0.01/UBN	*PAT/UBN
C3319	0.1/ZFN	*PAT/ZFN
C3320	0.1/ZFN	*PAT/ZFN
C3321	0.1/ZFN	*PAT/ZFN
C3322	0.1/ZFN	*PAT/ZFN
C3323	0.1/ZFN	*PAT/ZFN
C3324	*PAT/UN	*PAT/UN
C3325	120P/UN	*PAT/UN
C3326	150P/UN	*PAT/UN
C3327	18P/UN	*PAT/UN
C3328	220P/UN	*PAT/UN
C3329	270P/UN	*PAT/UN
C3330	330P/UN	*PAT/UN
C3331	390P/UN	*PAT/UN
C3332	39P/UN	*PAT/UN
C3333	*PAT/UFN	*PAT/UFN

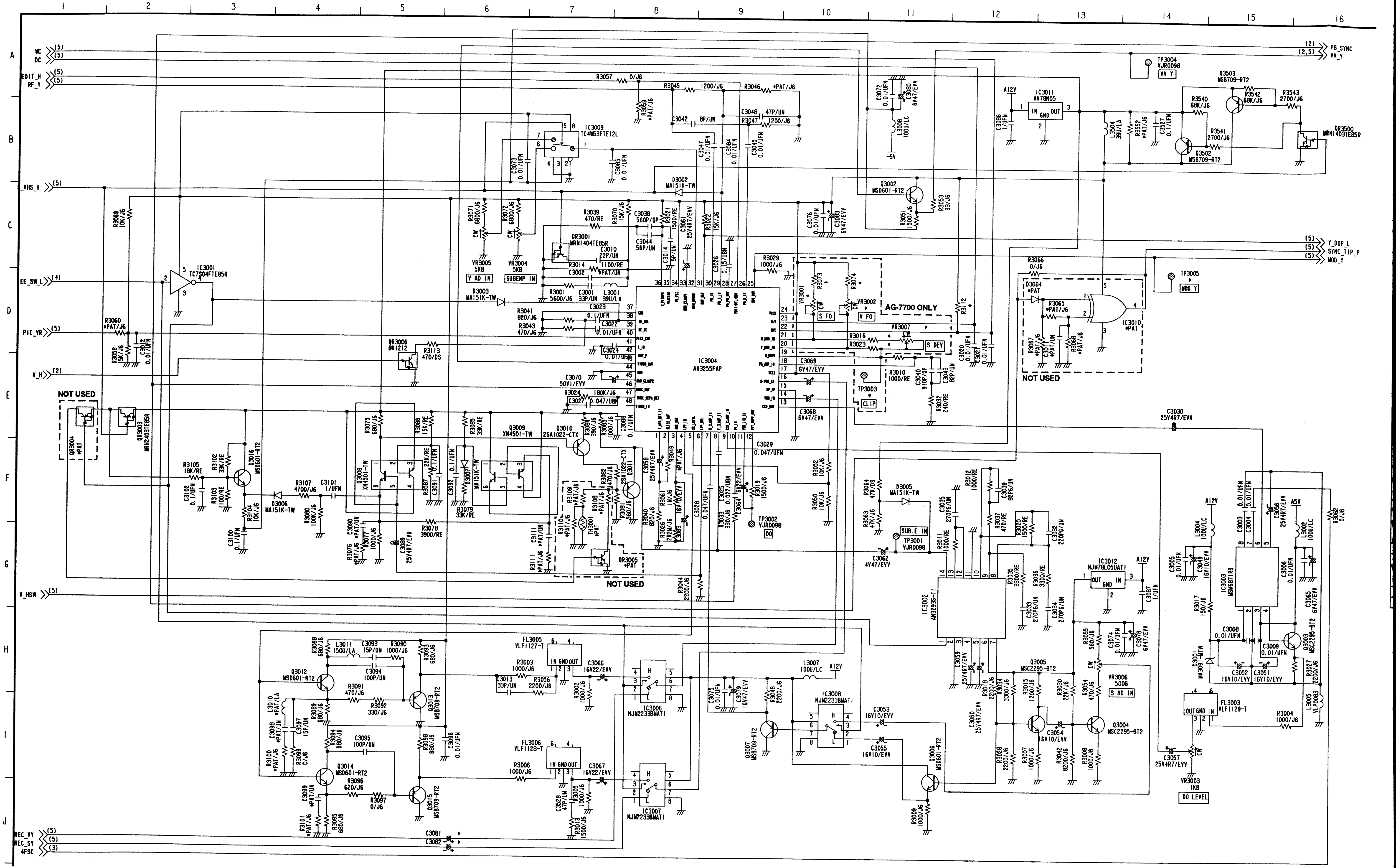
XLR M SCHEMATIC DIAGRAM (E30: Page CBA-16)

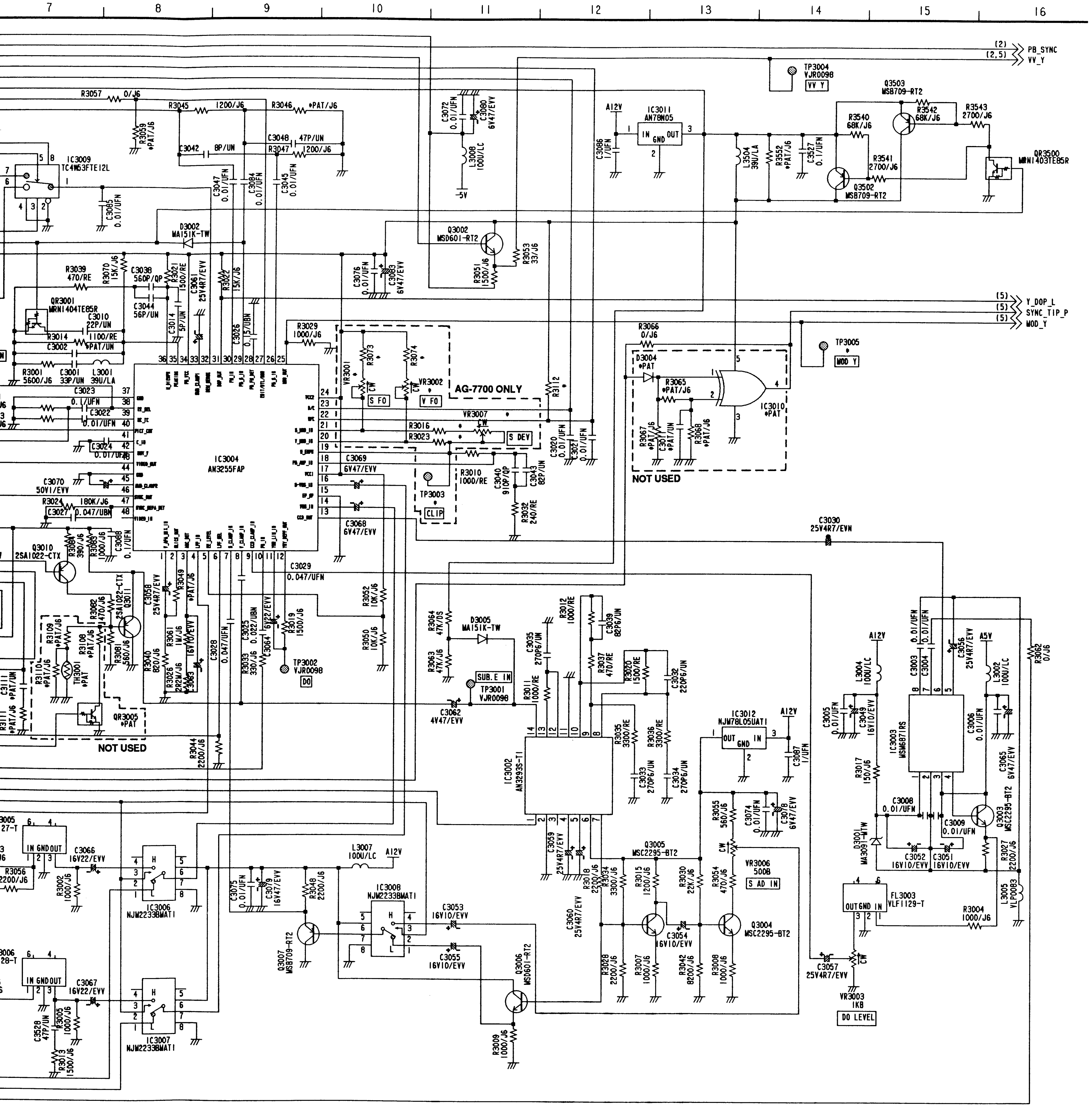

1
2
3
4
5
A
B
C
C6710
0.01
ECKR1H103ZF5
C6711
0.01
ECKR1H103ZF5
C6712
0.01
ECKR1H103ZF5
C6713
0.01
ECKR1H103ZF5
J6722
VJS3417
NORMAL/Hi-Fi CH1
J6723
VJS3417
NORMAL/Hi-Fi CH2
J6724
VJS3417
Hi-Fi CH1
J6725
VJS3417
Hi-Fi CH2
P6706
VJP1246T
JAPAN
P,E
1 AA_GND | AA_GND
2 CH1_LIN_IN_2 | CH1_LIN_OUT_2
3 CH1_LIN_IN_3 | CH1_LIN_OUT_3
4 AA_GND | AA_GND
5 CH2_LIN_IN_2 | CH2_LIN_OUT_2
6 CH2_LIN_IN_3 | CH2_LIN_OUT_3
P6707
VJP1247T
JAPAN
P,E
1 AA_GND | AA_GND
2 CH1_FM_IN_2 | CH1_FM_OUT_2
3 CH1_FM_IN_3 | CH1_FM_OUT_3
4 AA_GND | AA_GND
5 CH2_FM_IN_2 | CH2_FM_OUT_2
6 CH2_FM_IN_3 | CH2_FM_OUT_3
7
Ref No.6700 Series.

XLR F SCHEMATIC DIAGRAM (E31: AG-7700 0NLY/Page CBA-16)


1
2
3
4
5
A
B
C
C6714
0.01
ECKR1H103ZF5
C6715
0.01
ECKR1H103ZF5
C6716
0.01
ECKR1H103ZF5
C6717
0.01
ECKR1H103ZF5
J6726
VJS3417
NORMAL/Hi-Fi CH1
J6727
VJS3417
NORMAL/Hi-Fi CH2
J6728
VJS3417
Hi-Fi CH1
J6728
VJS3417
Hi-Fi CH2
P6708
VJP1246T
JAPAN
P,E
1 AA_GND | AA_GND
2 CH1_LIN_OUT_2 | CH1_LIN_IN_2
3 CH1_LIN_OUT_3 | CH1_LIN_IN_3
4 AA_GND | AA_GND
5 CH2_LIN_OUT_2 | CH2_LIN_IN_2
6 CH2_LIN_OUT_3 | CH2_LIN_IN_3
P6709
VJP1247T
JAPAN
P,E
1 AA_GND | AA_GND
2 CH1_FM_OUT_2 | CH1_FM_IN_2
3 CH1_FM_OUT_3 | CH1_FM_IN_3
4 AA_GND | AA_GND
5 CH2_FM_OUT_2 | CH2_FM_IN_2
6 CH2_FM_OUT_3 | CH2_FM_IN_3
7
Ref No.6700 Series.

VIDEO YC-1 SCHEMATIC DIAGRAM 1/6 (E6: Page CBA-7)

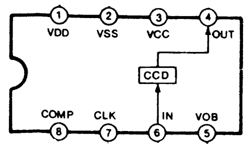

WC (5)
DC (5)
EDIT_H (5)
RF_Y (5)
V_VHS_H (5)
EE_SW_L (4)
PIC_VR (5)
V_H (2)
V_HSW (5)
REC_VY (5)
REC_SY (5)
4FSC (3)
PB_SYNC (2)
VV_Y (2,5)
Y_DOP_L (5)
SYNC_TIP_P (5)
MOD_Y (5)
IC3001 TC7S04FTE85R
IC3004 AN3255FAP
IC3009 TC4W53FTE12L
IC3011 AN78N05
IC3002 AN3293S-T1
IC3003 MSM6871RS
IC3006 NJM2233BMAT1
IC3007 NJM2233BMAT1
IC3008 NJM2233BMAT1
IC3010 *PAT
IC3012 NJM78L05UAT1
VR3005 5KB Y AD IN
VR3004 5KB SUBENP IN
VR3001 S FO
VR3002 V FO
VR3007 S DEV
VR3006 500B S AD IN
VR3003 1KB DO LEVEL
TP3001 VJR0098 SUB.E IN
TP3002 VJR0098 DO
TP3003 CLIP
TP3004 VJR0098 VV Y
TP3005 MOD Y
FL3003 VLF1129-T
FL3005 VLF1127-T
FL3006 VLF1128-T
AG-7700 ONLY
NOT USED
A12V
A5V
-5V


7
8
9
10
11
12
13
14
15
16
PB_SYNC
VV_Y
Y_DOP_L
SYNC_TIP_P
MOD_Y
IC3009 TC4W53FTE12L
IC3004 AN3255FAP
IC3002 AN3293S-T1
IC3003 MSM6871RS
IC3006 NJM2233BMAT1
IC3007 NJM2233BMAT1
IC3008 NJM2233BMAT1
IC3010 *PAT
IC3011 AN78N05
IC3012 NJM78L05UAT1
Q3002 MSD601-RT2
Q3003 MSC2295-BT2
Q3004 MSC2295-BT2
Q3005 MSC2295-BT2
Q3006 MSD601-RT2
Q3007 MSB709-RT2
Q3010 2SA1022-CTX
Q3011 2SA1022-CTX
Q3502 MSB709-RT2
Q3503 MSB709-RT2
QR3001 MRN1404TE85R
QR3005 *PAT
QR3500 MRN1403TE85R
D3002 MA151K-TW
D3004 *PAT
D3005 MA151K-TW
FL3003 VLF1129-T
VR3001
VR3002
VR3003 1KB
VR3006 500B
VR3007
TP3001 VJR0098
TP3002 VJR0098
TP3003
TP3004 VJR0098
TP3005
VV Y
MOD Y
S FO
V FO
S DEV
CLIP
SUB.E IN
S AD IN
DO
DO LEVEL
AG-7700 ONLY
NOT USED
NOT USED
A12V
A5V
-5V
Ref No.3000 Series.

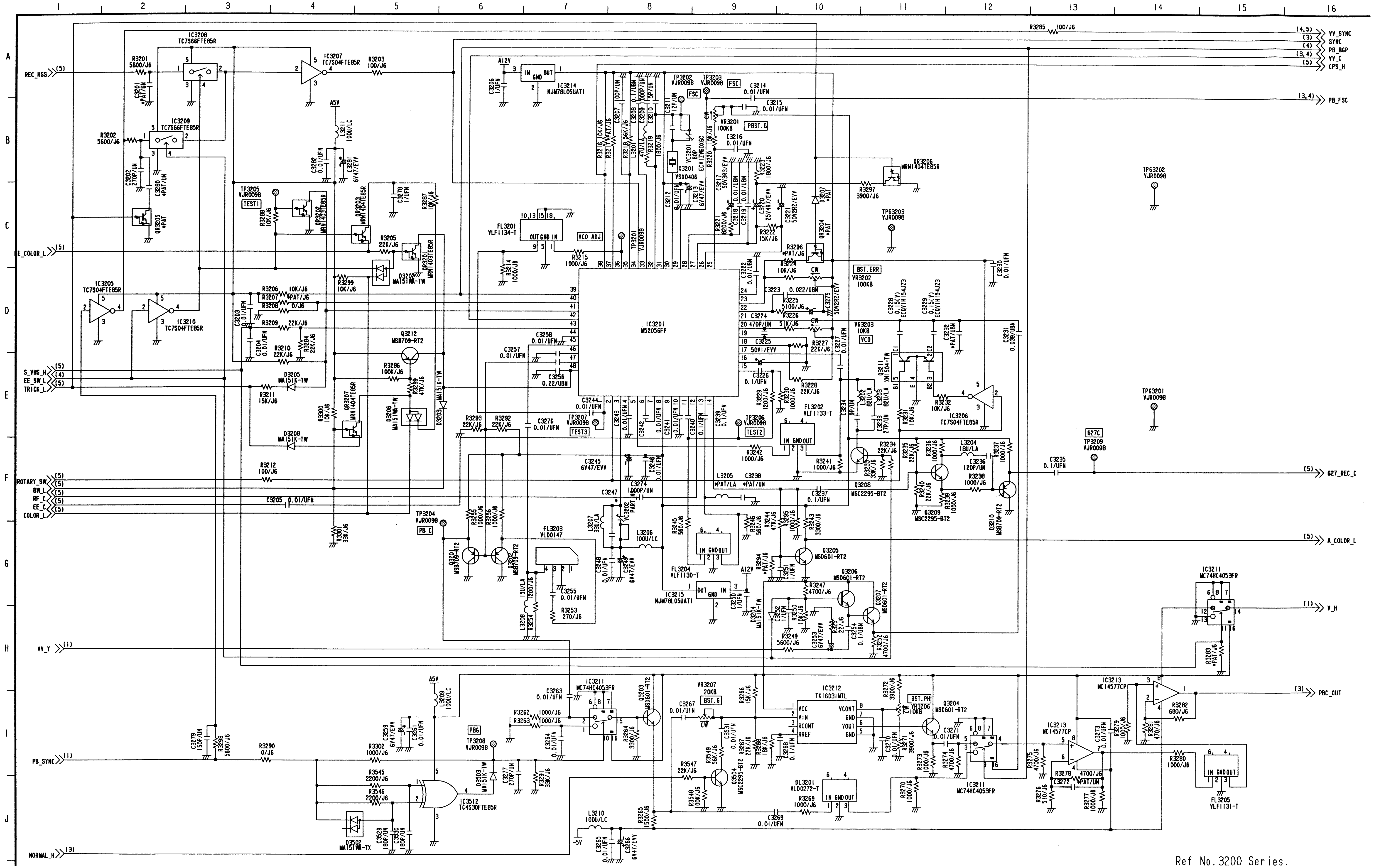
VIDEO YC-1 DC VOLTAGE CHART

REF. NO.	IC3001																			
MODE	1	2	3	4	5															
STOP	0	0	0	5.0	5.0															
REC	0	0	0	5.0	5.0															
REF. NO.	IC3002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	5.0	0	5.0	3.6	3.3	5.1	2.4	2.9	2.9	2.9	0	3.6	3.6	2.0						
REC	5.0	0	5.0	3.6	3.3	5.1	2.4	2.9	2.9	2.9	0	3.6	3.6	2.0						
REF. NO.	IC3003																			
MODE	1	2	3	4	5	6	7	8												
STOP	9.1	0	4.8	3.3	3.2	1.8	1.6	4.7												
REC	9.1	0	4.8	3.3	3.2	1.8	1.6	4.7												
REF. NO.	IC3004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	2.7	2.7	2.4	2.0	2.5	2.7	2.3	2.2	2.3	2.5	2.8	1.9	1.5	2.0	0	2.1	4.9	2.2	2.2	2.1
REC	2.7	2.7	2.4	2.0	2.5	2.7	2.3	2.2	2.3	2.5	2.8	1.9	1.5	2.0	0	2.1	4.9	2.2	2.2	2.1
REF. NO.	IC3004																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	2.1	3.8	2.4	4.9	3.2	2.8	4.9	2.1	2.9	2.9	1.3	0.8	2.7	4.9	0	3.3	0	4.5	2.0	3.0
REC	2.1	3.8	1.5	4.9	3.2	2.8	4.9	2.0	2.9	2.9	1.3	0.8	2.7	4.9	1.5	3.3	0	4.5	2.0	3.0
REF. NO.	IC3004																			
MODE	41	42	43	44	45	46	47	48												
STOP	3.3	0	1.5	0	2.7	0.4	2.7	2.8												
REC	3.3	0	1.5	0	2.7	0.4	2.7	2.8												
REF. NO.	IC3006										IC3007									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
STOP	6.9	0	7.0	0	0	11.3	6.2	0			6.9	0	7.0	0	0	11.3	6.2	0		
REC	6.9	0	7.0	0	0	11.3	6.2	0			6.9	0	7.0	0	0	11.3	6.2	0		
REF. NO.	IC3008										IC3009									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
STOP	6.9	0	7.0	0	0	11.3	6.2	0			0.8	0	−4.9	0	4.9	0.8	1.0	4.9		
REC	6.9	0	7.0	0	0	11.3	6.2	0			0.8	0	−4.9	0	4.9	0.8	1.0	4.9		
REF. NO.	IC3011										IC3012									
MODE	I	G	O								I	G	O							
STOP	11.4	0	5.0								11.4	0	5.0							
REC	11.4	0	5.0								11.4	0	5.0							
REF. NO.	Q3002			Q3003			Q3004			Q3005			Q3006			Q3007				
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B		
STOP	0.9	4.9	1.5	2.5	4.8	3.3	0.7	4.0	1.4	1.5	3.3	2.2	1.6	11.3	2.2	6.9	0	6.2		
REC	0.9	4.9	1.5	2.5	4.9	3.3	0.7	4.0	1.4	1.5	3.3	2.2	1.6	11.3	2.2	6.9	0	6.2		
REF. NO.	Q3008						Q3009						Q3010			Q3011				
MODE	1	2	3	4	5	6	1	2	3	4	5	6	E	C	B	E	C	B		
STOP	3.7	3.0	2.6	5.0	2.6	2.0	5.0	2.4	2.0	5.0	2.7	2.4	4.4	1.7	0	3.3	0	2.7		
REC	3.7	3.0	2.6	5.0	2.6	2.0	5.0	2.4	2.0	5.0	2.7	2.4	4.4	1.7	0	3.3	0	2.7		
REF. NO.	Q3012			Q3013			Q3014			Q3015			Q3502			Q3503				
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B		
STOP	1.4	3.5	2.0	2.1	0	1.4	1.4	3.5	2.0	2.1	0	1.4	5.0	4.9	4.2	5.0	4.9	4.3		
REC	1.4	3.5	2.0	2.1	0	1.4	1.4	3.5	2.0	2.1	0	1.4	5.0	4.9	4.2	5.0	4.9	4.3		
REF. NO.	QR3001			QR3003			QR3500													
MODE	E	C	B	E	C	B	E	C	B											
STOP	0	0	4.9	5.0	0.2	4.9	0	0.1	4.9											
REC	0	0	4.9	5.0	4.9	0.2	0	0.1	4.9											

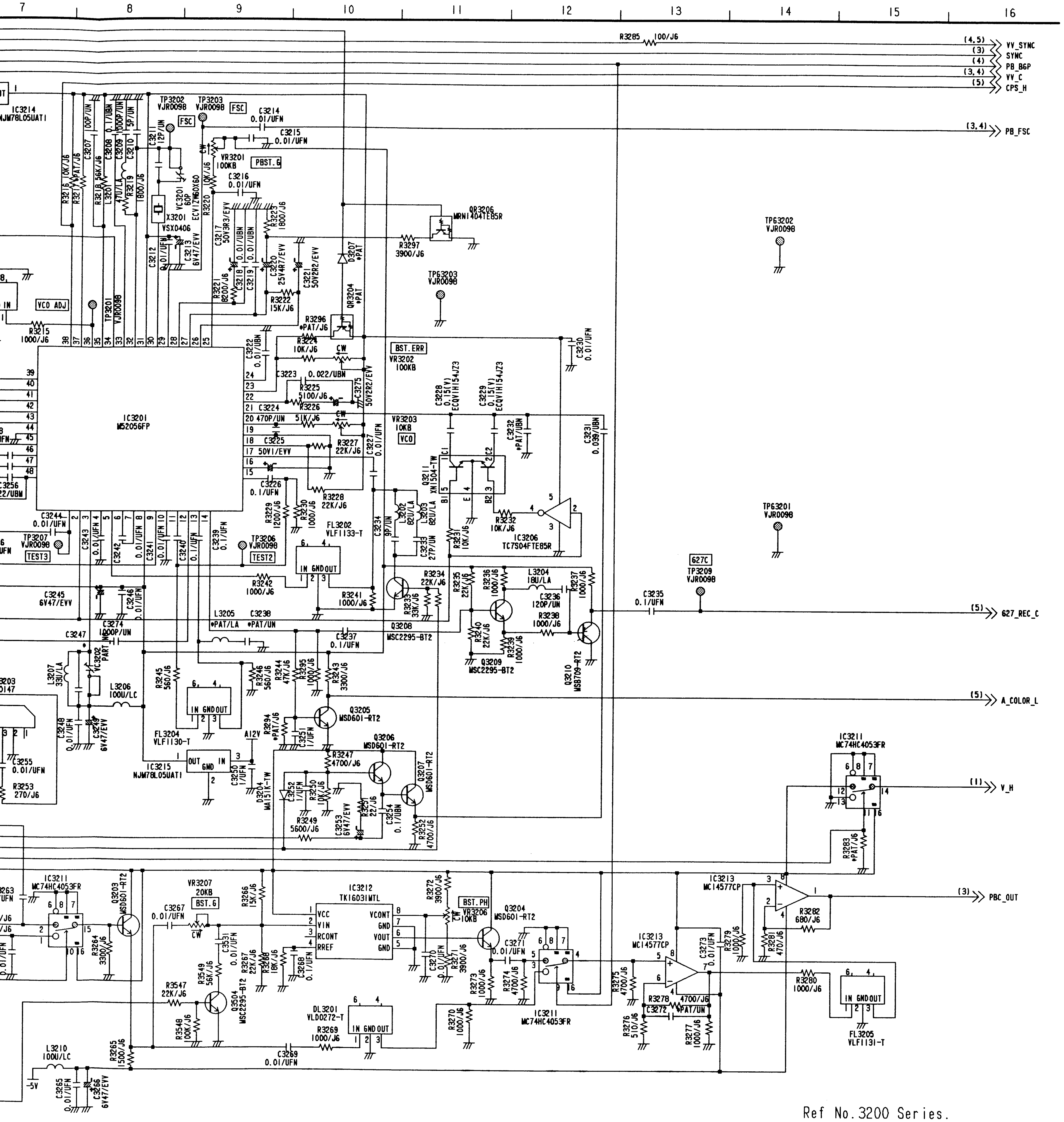
IC3003
MSM6871RS


①
②
③
④
VDD
VSS
VCC
OUT
CCD
COMP
CLK
IN
VOB
⑧
⑦
⑥
⑤

VIDEO YC-2 SCHEMATIC DIAGRAM 2/6 (E6: Page CBA-7)


REC_HSS
E_COLOR_L
S_VHS_H
EE_SW_L
TRICK_L
ROTARY_SW
BW_L
RF_C
EE_C
COLOR_L
VV_Y
PB_SYNC
NORMAL_H
VV_SYNC
SYNC
PB_BGP
VV_C
CPS_H
PB_FSC
627_REC_C
A_COLOR_L
V_H
PBC_OUT
IC3201
M52056FP
IC3207
TC7S04FTE85R
IC3208
TC7S66FTE85R
IC3209
TC7S66FTE85R
IC3205
TC7S04FTE85R
IC3210
TC7S04FTE85R
IC3214
NJM78L05UAT1
IC3215
NJM78L05UAT1
IC3206
TC7S04FTE85R
IC3211
MC74HC4053FR
IC3212
TK16031MTL
IC3213
MC14577CP
IC3512
TC4S30FTE85R
FL3201
VLF1134-T
FL3202
VLF1133-T
FL3203
VLD0147
FL3204
VLF1130-T
FL3205
VLF1131-T
DL3201
VLD0272-T
X3201
VSX0406
VR3201
VR3202
VR3203
VR3206
VR3207
TP3202
TP3203
TP3204
TP3205
TP3206
TP3207
TP3208
TP3209
TP63201
TP63202
TP63203
FSC
PBST.6
TEST1
TEST2
VCO ADJ
BST.ERR
VCO
PB_C
PB6
BST.6
BST.PH
627C
A12V
A5V
-5V

Ref No.3200 Series.

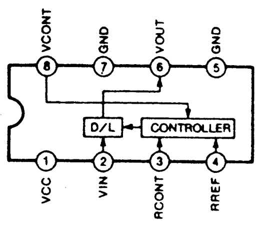

7
8
9
10
11
12
13
14
15
16
R3285 100/J6
VV_SYNC
SYNC
PB_BGP
VV_C
CPS_H
PB_FSC
627_REC_C
A_COLOR_L
V_H
PBC_OUT
IC3201
M52056FP
IC3214
NJM78L05UATI
IC3215
NJM78L05UATI
IC3206
TC7S04FTE85R
IC3211
MC74HC4053FR
IC3212
TK16031MTL
IC3213
MC14577CP
TP3202 VJR0098
TP3203 VJR0098
FSC
PBST.6
BST.ERR
VR3202 10KB
VR3203 10KB
VCO
VCO ADJ
TP3201 VJR0098
TP3206 VJR0098
TEST2
TP3207 VJR0098
TEST3
TP63202 VJR0098
TP63203 VJR0098
TP63201 VJR0098
627C
TP3209 VJR0098
QR3206 MRN1404TE85R
X3201 VSX0406
VR3201 100KB
FL3202 VLF1133-T
FL3204 VLF1130-T
FL3205 VLF1131-T
DL3201 VLD0272-T
Q3205 MSD601-RT2
Q3206 MSD601-RT2
Q3207 MSD601-RT2
Q3208 MSC2295-BT2
Q3209 MSC2295-BT2
Q3210 MSB709-RT2
Q3211 XN1504-TW
Q3204 MSD601-RT2
Q3504 MSC2295-BT2
Q3203 MSD601-RT2
D3204 MA151K-TW
VR3207 20KB
BST.6
BST.PH
VR3206 10KB
L3210 100U/LC
-5V
A12V
IN GND OUT
CW

Ref No. 3200 Series.

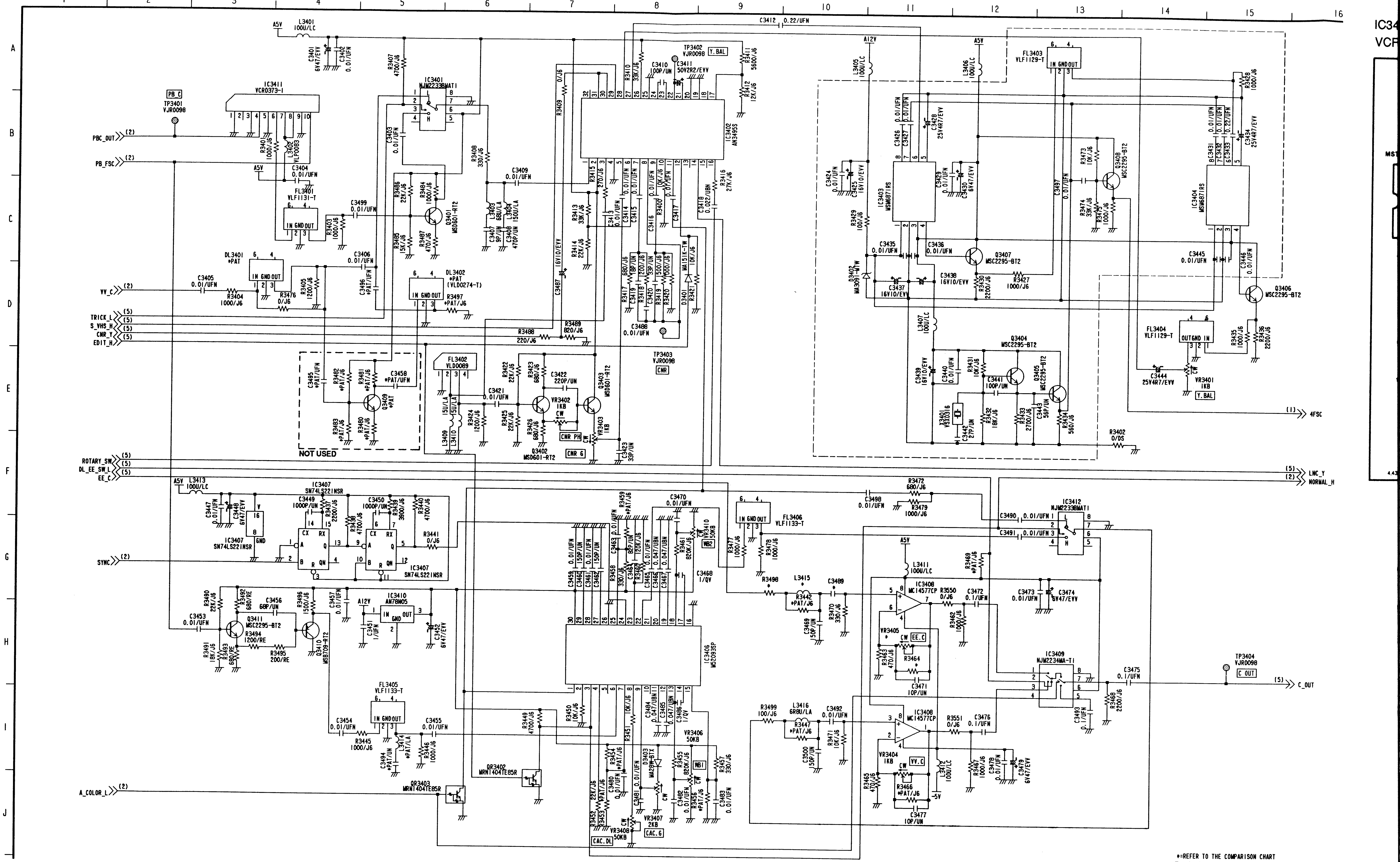
VIDEO YC-2 DC VOLTAGE CHART

REF. NO.	IC3201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	2.3	2.4	5.1	3.2	2.4	3.0	3.9	5.1	3.1	3.4	2.3	3.2	3.1	2.5	3.2	3.4	3.2	2.6	0	0
REC	2.3	2.4	5.1	3.2	2.4	3.0	3.9	5.1	3.1	3.4	2.3	3.2	3.1	2.5	3.2	3.4	3.2	2.6	0	0
REF. NO.	IC3201																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	2.3	3.4	2.0	3.2	0.9	3.4	3.4	4.0	3.6	3.2	5.1	3.9	3.2	0.4	3.0	2.7	0	4.2	4.4	0
REC	2.3	3.4	2.0	3.2	0.9	3.4	3.4	4.0	3.6	3.0	5.1	3.9	3.2	0.4	3.0	2.7	0	4.2	4.4	0
REF. NO.	IC3201																			
MODE	41	42	43	44	45	46	47	48												
STOP	0	2.5	2.5	0	3.2	3.4	2.5	4.9												
REC	0	2.5	2.5	0	3.2	3.4	2.5	4.9												
REF. NO.	IC3205										IC3206									
MODE	1	2	3	4	5						1	2	3	4	5					
STOP	0	0.4	0	4.5	4.9						0	2.4	0	2.5	5.1					
REC	0	0.4	0	4.5	4.9						0	2.4	0	2.5	5.1					
REF. NO.	IC3207										IC3208									
MODE	1	2	3	4	5						1	2	3	4	5					
STOP	0	4.6	0	0.4	4.9						4.6	4.6	0	4.9	4.9					
REC	0	4.6	0	0.4	4.9						4.6	4.6	0	4.9	4.9					
REF. NO.	IC3209										IC3210									
MODE	1	2	3	4	5						1	2	3	4	5					
STOP	4.5	4.6	0	0	4.9						0	0	0	4.9	4.9					
REC	4.5	4.9	0	0	4.9						0	0	0	4.9	4.9					
REF. NO.	IC3211																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	0	0	0	0	0	0	0	4.4	0.3	0	0	0	0	0	4.7				
REC	0	0	0	0	0	0	0	0	4.4	0.3	0	0	0	0	0	4.7				
REF. NO.	IC3212										IC3213									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
STOP	4.7	2.8	2.5	2.3	0	2.9	0	2.3			0.1	−0.1	0	−4.8	0	0	0.1	4.7		
REC	4.7	2.8	2.7	2.3	0	2.9	0	2.3			0.1	−0.1	0	−4.8	0	0	0.1	4.7		
REF. NO.	IC3214										IC3215									
MODE	I	G	O								I	G	O							
STOP	11.4	0	5.1								11.4	0	5.1							
REC	11.4	0	5.1								11.4	0	5.1							
REF. NO.	IC3216																			
MODE	1	2	3	4	5															
STOP	0.3	0.3	0	4.9	4.7															
REC	0.4	0.4	0	4.9	4.7															
REF. NO.	Q3201			Q3202			Q3203			Q3204			Q3205			Q3206				
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B		
STOP	3.3	0	2.7	3.3	0	2.7	−0.6	4.7	0	2.2	4.7	2.8	0	0.1	0.6	0.3	4.7	0.6		
REC	3.3	0	2.7	3.3	0	2.7	−0.6	4.7	0	2.5	4.7	2.9	0	0.1	0.6	0.3	4.7	0.6		
REF. NO.	Q3207			Q3208			Q3209			Q3210			Q3211							
MODE	E	C	B	E	C	B	E	C	B	E	C	B	1	2	3	4	5			
STOP	0	4.7	0.3	0	0	0	1.6	3.5	2.4	2.3	0	1.6	0	0	0.4	0	0.3			
REC	0	4.7	0.3	0	0	0	1.6	3.5	2.4	2.3	1.6	0	0	0	0.4	0	0.3			
REF. NO.	Q3212																			
MODE	E	C	B																	
STOP	4.9	4.9	4.3																	
REC	4.9	4.9	4.3																	
REF. NO.	QR3201			QR3202			QR3203			QR3205			QR3206			QR3207				
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B		
STOP	0	4.9	0	0	0	3.5	0.1	0.1	4.9	0	0	3.4	0	0	3.4	1.6	1.6	4.4		
REC	0	4.9	0	0	0	3.5	0.1	0.1	4.9	0	0	3.4	0	0	3.4	1.6	1.6	4.4		

IC3212
TK16031MTL

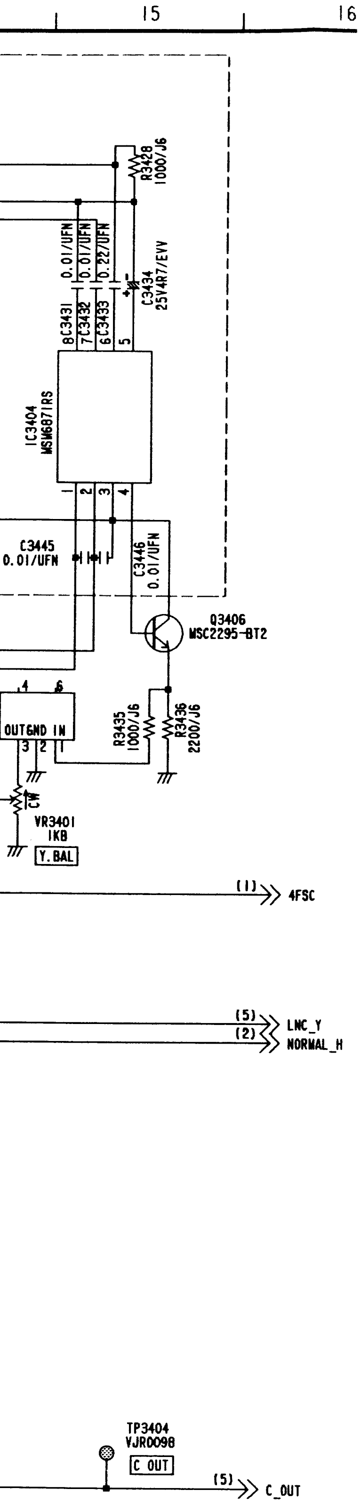

VCONT
GND
VOUT
GND
8
7
6
5
D/L
CONTROLLER
1
2
3
4
VCC
VIN
RCONT
RREF

VIDEO YC-3 SCHEMATIC DIAGRAM 3/6 (E6: Page CBA-7)


IC3411 VCR0373-1
IC3401 NJM2233BMAT1
IC3402 AN3495S
IC3403 MSM6871RS
IC3404 MSM6871RS
IC3406 M52093SP
IC3407 SN74LS221NSR
IC3408 MC14577CP
IC3409 NJM2234MA-T1
IC3410 AN78N05
IC3412 NJM2233BMAT1
FL3401 VLF1131-T
FL3402 VLD0089
FL3403 VLF1129-T
FL3404 VLF1129-T
FL3405 VLF1133-T
FL3406 VLF1133-T
DL3401 *PAT
DL3402 *PAT (VLD0274-T)
Q3401 MSD601-RT2
Q3402 MSD601-RT2
Q3403 MSD601-RT2
Q3404 MSC2295-BT2
Q3405 MSC2295-BT2
Q3406 MSC2295-BT2
Q3407 MSC2295-BT2
Q3408 MSC2295-BT2
Q3409 *PAT
Q3410 MSB709-RT2
Q3411 MSC2295-BT2
QR3402 MRN1404TE85R
QR3403 MRN1404TE85R
D3401 MA151K-TW
D3402 MA3091-H-TW
D3403 MA2800-TX
TP3401 VJR0098 PB C
TP3402 VJR0098 Y.BAL
TP3403 VJR0098 CNR
TP3404 VJR0098 C OUT
VR3401 1KB Y.BAL
VR3402 1KB CNR PH
VR3403 1KB CNR G
VR3404 1KB VV.C
VR3405 EE.C
VR3406 50KB NB1
VR3407 2KB CAC.G
VR3408 50KB CAC.DL
VR3410 50KB NB2
X3401 VSX0316
NOT USED
A5V
A12V
-5V
PBC_OUT (2)
PB_FSC (2)
VV_C (2)
TRICK_L (5)
S_VHS_H (5)
CNR_Y (5)
EDIT_H (5)
ROTARY_SW (5)
DL_EE_SW_L (5)
EE_C (5)
SYNC (2)
A_COLOR_L (2)
(1) 4FSC
(5) LNC_Y
(2) NORMAL_H
(5) C_OUT
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J

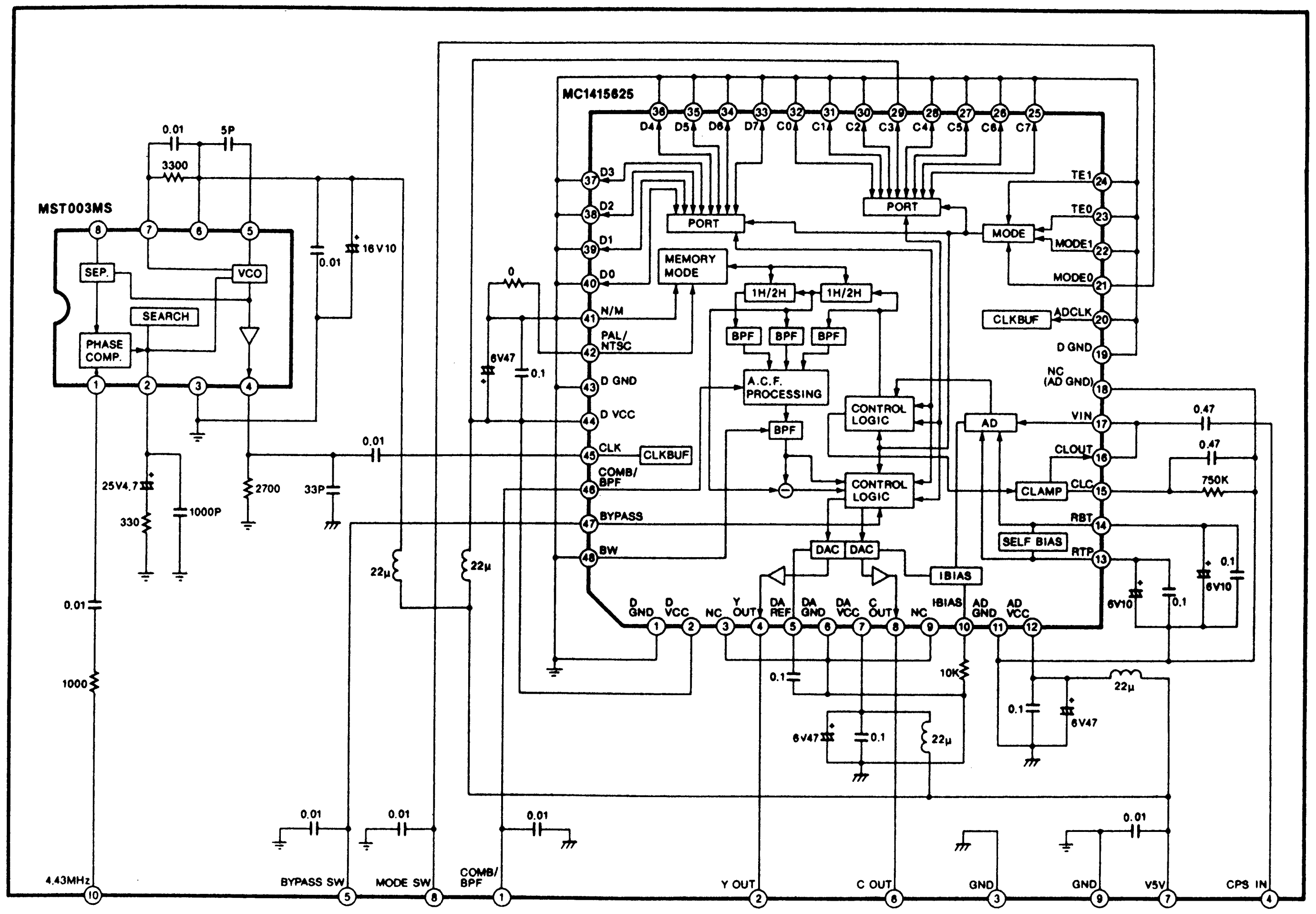
*=REFER TO THE COMPARISON CHART

Ref No.3400 Series.

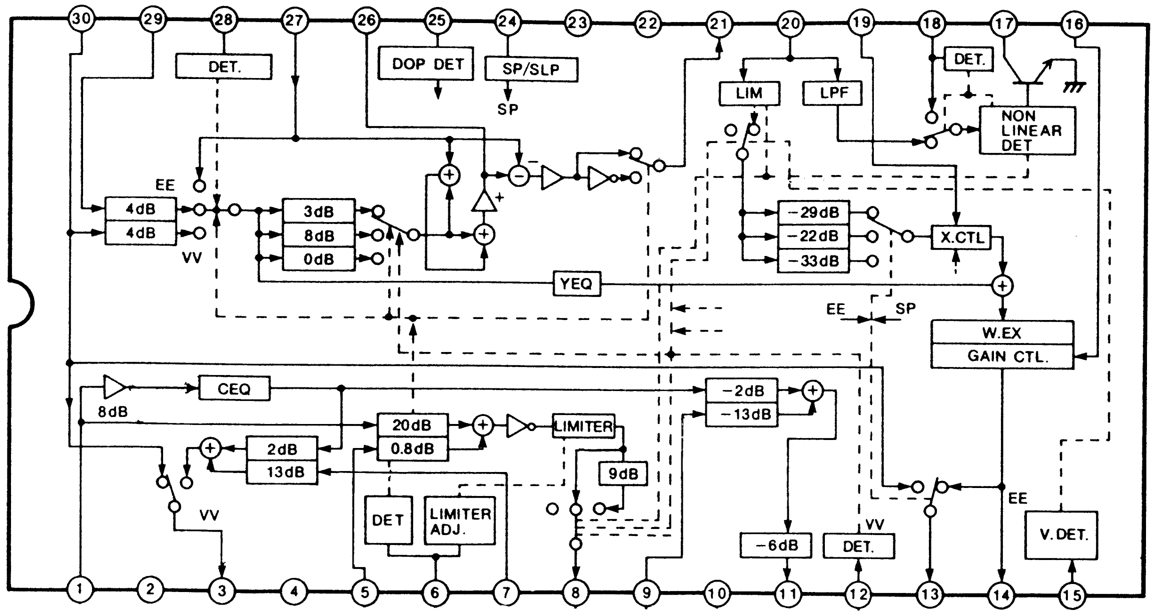

15
16
R3428 1000/J6
C3431 0.01/UFN
C3432 0.01/UFN
C3433 0.22/UFN
C3434 25V4R7/EVV
IC3404 MSM6871RS
C3445 0.01/UFN
C3446 0.01/UFN
Q3406 MSC2295-BT2
OUTGND IN
R3435 1000/J6
R3436 2200/J6
VR3401 1KB
Y.BAL
(1) 4FSC
(5) LNC_Y
(2) NORMAL_H
TP3404 VJR0098
C OUT
(5) C_OUT

*=REFER TO THE COMPARISON CHART
Ref No.3400 Series.

IC3411
VCR0373


MC1415625
MST003MS
SEP.
VCO
SEARCH
PHASE COMP.
PORT
MEMORY MODE
1H/2H
BPF
A.C.F. PROCESSING
CONTROL LOGIC
CLKBUF
AD
CLAMP
SELF BIAS
IBIAS
DAC
MODE
D0
D1
D2
D3
N/M
PAL/NTSC
D GND
D VCC
CLK
COMB/BPF
BYPASS
BW
TE1
TE0
MODE1
MODE0
ADCLK
D GND
NC (AD GND)
VIN
CLOUT
CLC
RBT
RTP
D GND
D VCC
NC
Y OUT
DA REF
DA GND
DA VCC
C OUT
NC
IBIAS
AD GND
AD VCC
4.43MHz
BYPASS SW
MODE SW
COMB/BPF
Y OUT
C OUT
GND
GND
V5V
CPS IN
0.01
5P
3300
16V10
0.01
25V4.7
1000P
2700
33P
330
22µ
22µ
0.01
1000
6V47
0.1
0.47
750K
6V10
0.1
10K
22µ
6V47

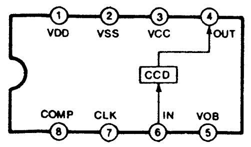
IC3402
AN3495S


DET.
DOP DET
SP/SLP
SP
LIM
LPF
DET.
NON LINEAR DET
EE
4dB
4dB
VV
3dB
8dB
0dB
-29dB
-22dB
-33dB
X.CTL
YEQ
EE
SP
W.EX GAIN CTL.
CEQ
8dB
-2dB
-13dB
20dB
0.8dB
LIMITER
2dB
13dB
9dB
DET
LIMITER ADJ.
VV
-6dB
DET.
VV
EE
V.DET.

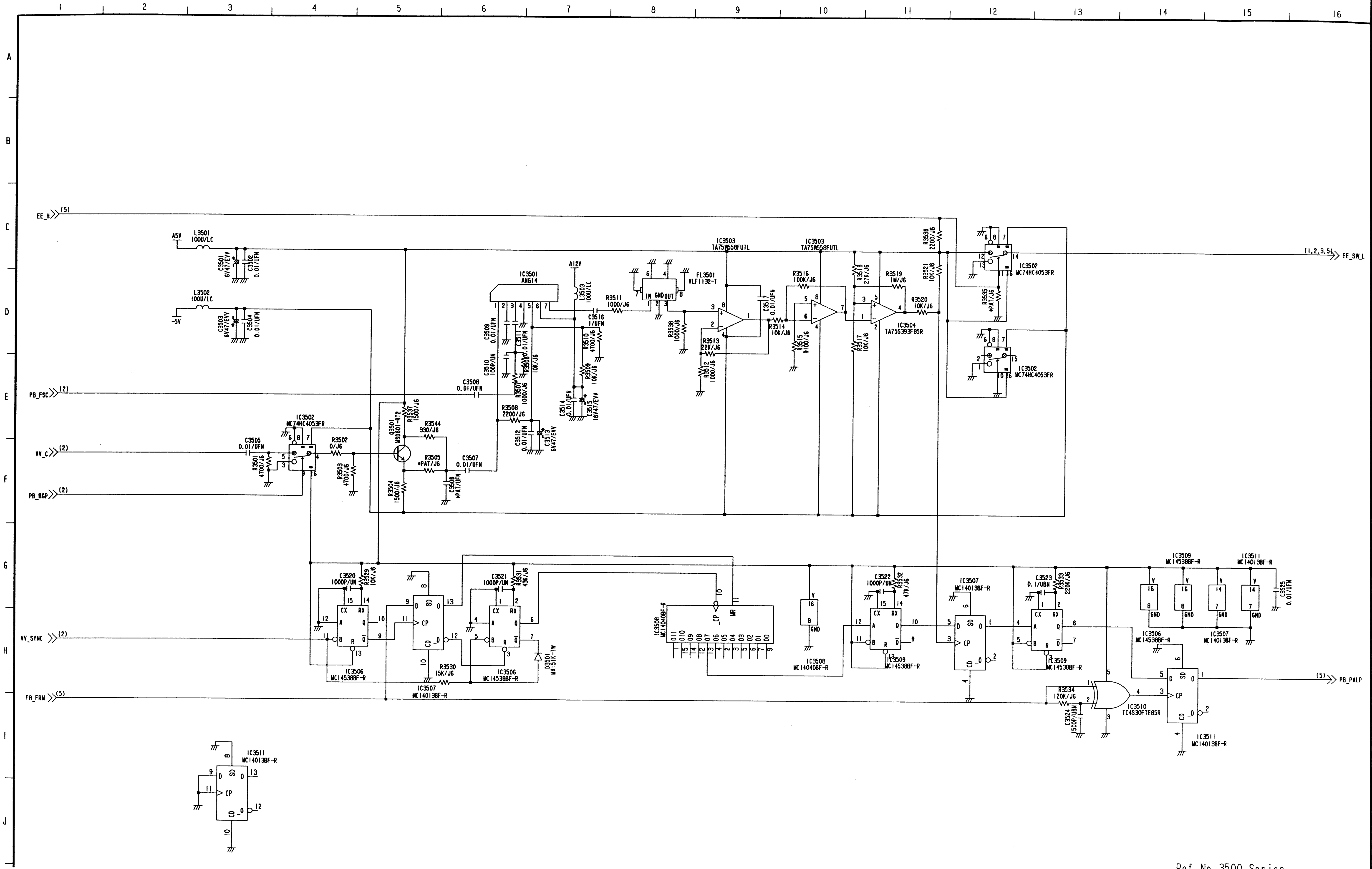
VIDEO YC-3 DC VOLTAGE CHART

REF. NO.	IC3401																			
MODE	1	2	3	4	5	6	7	8												
STOP	2.8	3.4	2.8	0	0	4.7	2.0	0												
REC	2.8	3.4	2.8	0	0	4.7	2.0	0												
REF. NO.	IC3402																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.1	4.7	1.6	0	3.0	1.9	3.1	1.7	3.1	0	1.6	4.3	1.5	1.7	0	2.4	3.2	0	0	0
REC	3.0	4.7	1.5	0	3.0	1.9	3.1	1.7	3.1	0	1.6	4.3	1.5	1.7	0	2.4	3.2	0.1	0	0
REF. NO.	IC3402																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
STOP	2.8	2.5	2.2	2.2	0	4.7	1.5	3.5	4.9	3.5	3.5	0								
REC	2.9	2.5	2.2	2.2	0	4.7	1.5	3.5	4.9	3.5	3.5	0								
REF. NO.	IC3403										IC3404									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
STOP	8.0	0	4.7	2.8	2.6	1.1	1.4	4.1			7.9	0	4.7	2.8	2.6	1.1	1.4	4.1		
REC	7.9	0	4.7	2.8	2.6	1.1	1.4	4.1			7.9	0	4.7	2.8	2.6	1.1	1.4	4.1		
REF. NO.	IC3406																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.0	1.5	0.1	0	0	3.0	2.5	4.0	1.7	0	4.2	3.7	3.0	2.2	5.0	0	2.2	3.0	4.2	3.7
REC	3.0	1.5	0.1	0	0	3.0	2.5	4.0	1.7	0	4.2	3.7	3.0	2.2	5.0	0	2.2	3.0	4.2	3.7
REF. NO.	IC3406																			
MODE	21	22	23	24	25	26	27	28	29	30										
STOP	0	2.4	2.7	0.3	5.0	0	4.0	2.5	4.0	5.0										
REC	0	2.4	2.8	0.3	5.0	0	4.0	2.5	4.0	5.0										
REF. NO.	IC3407																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	0.4	4.9	3.9	0.3	4.6	0	0	0.2	4.9	4.9	3.9	0.2	4.7	1.2	4.9				
REC	0	0.4	4.9	4.0	0.3	4.6	0	0	0.2	4.9	4.9	3.9	0.2	4.7	1.2	4.9				
REF. NO.	IC3408										IC3409									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
STOP	0	0	0	−4.8	0	0	0	4.7			2.8	0	2.8	0.1	2.8	4.7	2.1	0		
REC	0	0	0	−4.8	0	0	0	4.7			2.8	0	2.8	0.1	2.8	4.7	2.1	0		
REF. NO.	IC3410										IC3411									
MODE	I	G	O								1	2	3	4	5	6	7	8	9	10
STOP	11.4	0	5.0								0	0.9	0	0.1	0	0.9	4.9	4.9	0	0
REC	11.4	0	5.0								0	0.9	0	0.1	0	0.9	4.9	4.9	0	0
REF. NO.	IC3412																			
MODE	1	2	3	4	5	6	7	8												
STOP	2.8	0	2.8	0	0	4.7	2.0	0												
REC	2.8	0	2.8	0	0	4.7	2.0	0												
REF. NO.	Q3401			Q3402			Q3403			Q3404			Q3405			Q3406				
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B		
STOP	1.2	2.1	1.8	1.6	3.0	2.2	1.0	4.7	1.6	2.3	4.7	3.1	2.0	4.6	2.3	2.1	4.7	2.8		
REC	1.2	2.2	1.8	1.6	3.0	2.2	1.0	4.7	1.6	2.3	4.7	3.1	2.0	4.7	2.3	2.1	4.7	2.8		
REF. NO.	Q3407			Q3408			Q3410			Q3411										
MODE	E	C	B	E	C	B	E	C	B	E	C	B								
STOP	2.1	4.7	2.8	2.9	4.7	3.4	2.0	0	1.3	1.3	3.7	2.1								
REC	2.1	4.7	2.8	2.9	4.7	3.4	2.0	0	1.3	1.3	3.7	2.1								
REF. NO.	QR3402			QR3403																
MODE	E	C	B	E	C	B														
STOP	0	0	4.9	0	3.0	0														
REC	0	0	4.9	0	3.0	0														

IC3403,3404
MSM6871RS


VDD
VSS
VCC
OUT
CCD
COMP
CLK
IN
VOB

VIDEO YC-4 SCHEMATIC DIAGRAM 4/6 (E6: Page CBA-7)


EE_H (5)
A5V
L3501 100U/LC
C3501 6V47/EVV
C3502 0.01/UFN
L3502 100U/LC
-5V
C3503 6V47/EVV
C3504 0.01/UFN
PB_FSC (2)
VV_C (2)
PB_BGP (2)
VV_SYNC (2)
PB_FRM (5)
IC3501 AN614
A12V
L3503 100U/LC
C3509 0.01/UFN
C3510 100P/UN
C3511 0.01/UFN
C3508 0.01/UFN
R3508 2200/J6
C3512 0.01/UFN
C3513 6V47/EVV
C3514 0.01/UFN
C3515 16V47/EVV
R3510 4700/J6
R3509 10K/J6
C3516 1/UFN
R3511 1000/J6
FL3501 VLF1132-T
IN GND OUT
R3538 1000/J6
R3513 22K/J6
R3512 1000/J6
IC3503 TA75W558FUTL
C3517 0.01/UFN
R3514 10K/J6
R3515 9100/J6
R3516 100K/J6
R3518 27K/J6
R3517 10K/J6
R3519 1M/J6
R3520 10K/J6
IC3504 TA75S393FE85R
R3536 2200/J6
R3521 10K/J6
R3535 *PAT/J6
IC3502 MC74HC4053FR
(1,2,3,5) EE_SW_L
IC3502 MC74HC4053FR
C3505 0.01/UFN
R3501 4700/J6
R3502 0/J6
R3503 4700/J6
Q3501 MSD601-RT2
R3537 1500/J6
R3544 330/J6
R3505 *PAT/J6
C3506 *PAT/UFN
C3507 0.01/UFN
R3504 1500/J6
C3520 1000P/UN
R3529 10K/J6
IC3506 MC14538BF-R
IC3507 MC14013BF-R
C3521 1000P/UN
R3531 43K/J6
R3530 15K/J6
D3501 MA151K-TW
IC3508 MC14040BF-R
C3522 1000P/UN
R3532 47K/J6
IC3509 MC14538BF-R
C3523 0.1/UBN
R3533 220K/J6
IC3511 MC14013BF-R
C3525 0.01/UFN
R3534 120K/J6
C3524 1500P/UBN
IC3510 TC4S30FTE85R
(5) PB_PALP
IC3511 MC14013BF-R
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J

Ref No.3500 Series.

VIDEO YC COMPARISON CHART 6/6 (E6: Page CBA-7)

14
15
16
(1,2,3,5)
EE_SW_L
IC3509
MC14538BF-R
IC3511
MC14013BF-R
V
16
8
GND
V
14
7
GND
V
14
7
GND
C3525
0.01/UFN
506
38BF-R
IC3507
MC14013BF-R
6
5
D
SD
0
1
3
CP
35R
CD
0
2
4
(5)
PB_PALP
IC3511
MC14013BF-R

Ref No.3500 Series.

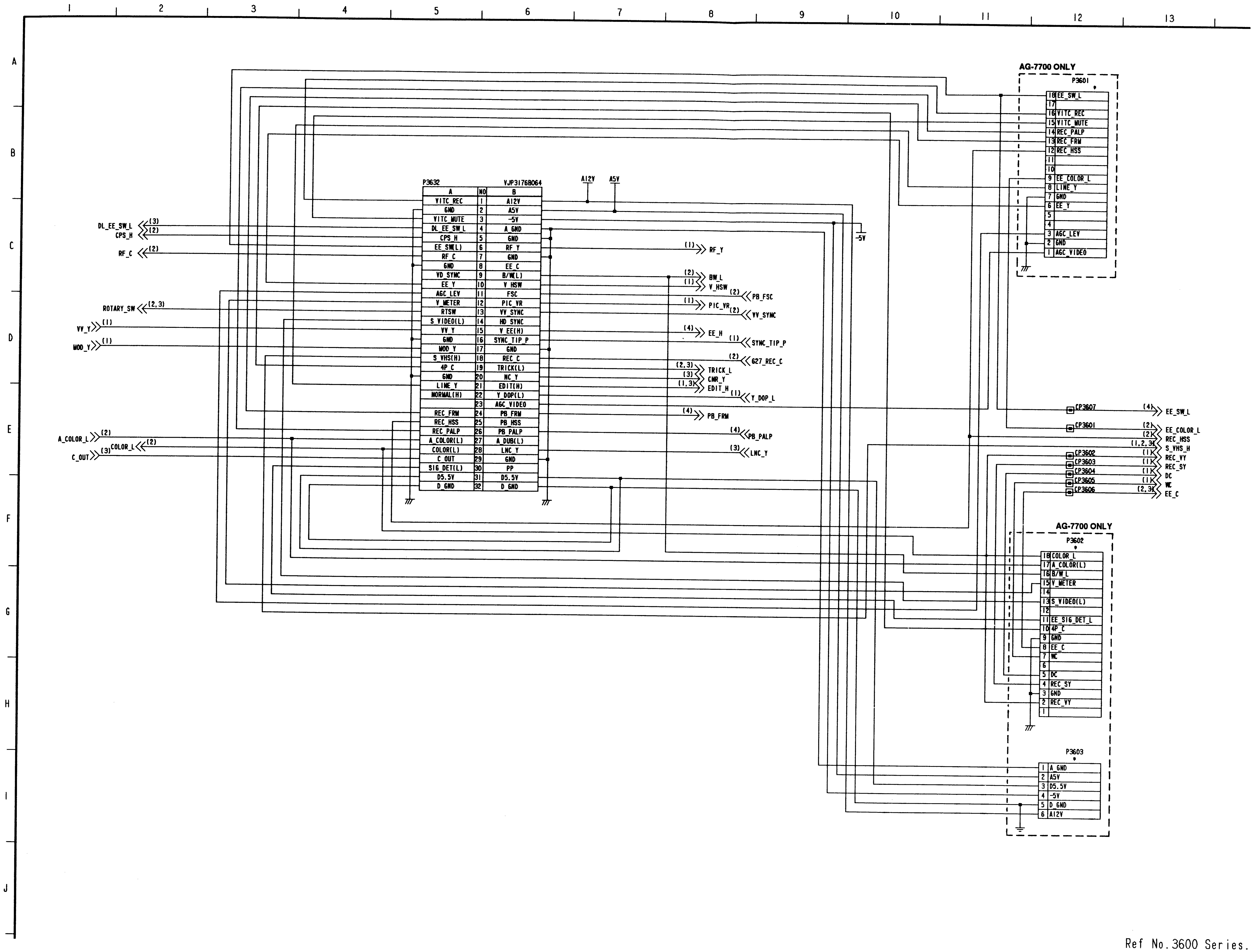
VIDEO YC-4 DC VOLTAGE CHART

REF. NO.	IC3501									
MODE	1	2	3	4	5	6	7			
STOP	3.7	4.2	4.2	0	3.7	11.4	7.6			
REC	3.7	4.2	4.2	0	3.7	11.4	7.6			
REF. NO.	IC3502									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	0	0	0	−4.9	0	4.3	0
REC	0	0	0	0	0	0	−4.9	0	4.4	0
REF. NO.	IC3502									
MODE	11	12	13	14	15	16				
STOP	4.9	4.9	0	0	0	4.9				
REC	4.9	4.9	0	0	0	4.9				
REF. NO.	IC3503									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−4.9	0	0	−0.2	4.9		
REC	0	0	0	−4.9	0	0	−0.2	4.9		
REF. NO.	IC3504									
MODE	1	2	3	4	5					
STOP	−0.2	−4.9	−2.2	−4.7	4.9					
REC	−0.2	−4.9	−2.2	−4.8	4.9					
REF. NO.	IC3506									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	3.4	2.4	0	2.9	1.8	3.1	0	3.8	1.1
REC	0	3.4	2.4	0	3.0	1.8	3.1	0	3.8	1.1
REF. NO.	IC3506									
MODE	11	12	13	14	15	16				
STOP	4.5	0	4.9	3.8	0	4.9				
REC	4.5	0	4.9	3.8	0	4.9				
REF. NO.	IC3507									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	4.7	0.1	0	0	0	0	0	2.5	0
REC	0	4.9	0.1	0	0	0	0	0	2.5	0
REF. NO.	IC3507									
MODE	11	12	13	14						
STOP	3.8	2.4	2.4	4.7						
REC	3.8	2.4	2.4	4.9						
REF. NO.	IC3508									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	1.2	1.1	0.9	1.2	1.2	1.2	0	1.2	1.8
REC	0	1.2	1.2	1.0	1.2	1.2	1.2	0	1.2	1.8
REF. NO.	IC3508									
MODE	11	12	13	14	15	16				
STOP	2.4	0.4	1.0	0	0	4.9				
REC	2.4	0.4	1.0	0	0	4.9				
REF. NO.	IC3509									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	2.7	4.9	0	4.9	2.7	2.2	0	4.9	0
REC	0	2.7	4.9	0	4.9	2.7	2.2	0	4.9	0
REF. NO.	IC3509									
MODE	11	12	13	14	15	16				
STOP	4.9	1.0	4.9	4.9	0	4.9				
REC	4.9	1.0	4.9	4.8	0	4.9				
REF. NO.	IC3510									
MODE	1	2	3	4	5					
STOP	2.5	2.5	0	0	4.9					
REC	2.5	2.5	0	0	4.9					
REF. NO.	IC3511									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	2.4	2.4	0	0	2.7	0	0	0	0	0
REC	2.4	2.4	0	0	2.7	0	0	0	0	0
REF. NO.	IC3511									
MODE	11	12	13	14						
STOP	0	0	4.9	4.9						
REC	0	0	4.9	4.9						
REF. NO.	Q3501									
MODE	E	C	B							
STOP	−0.6	0.6	0							
REC	−0.6	0.6	0							

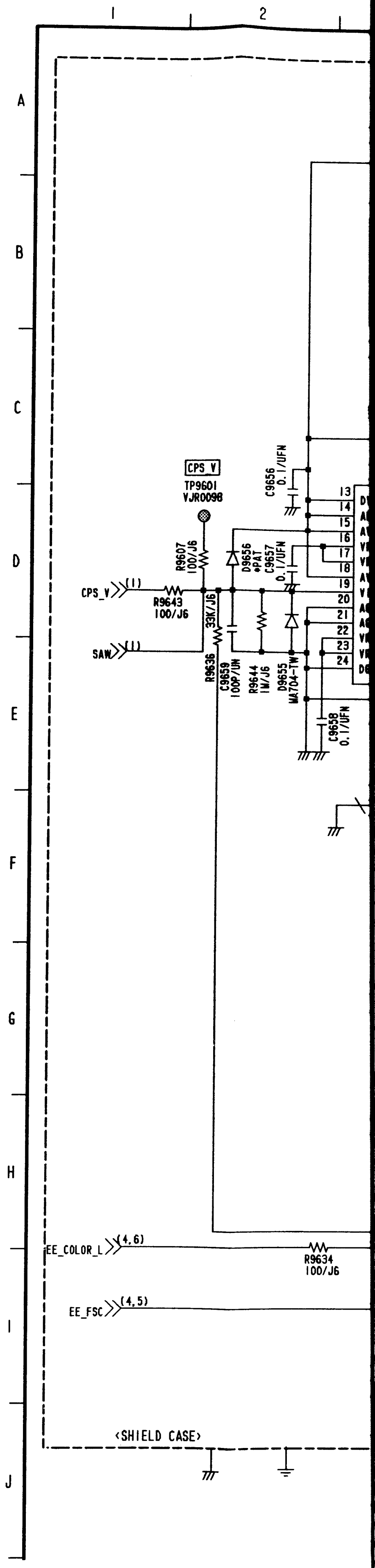
REF	AG-7700	AG-7600
C3002	*PAT/UN	*PAT/UN
C3011	*PAT/UN	*PAT/UN
C3081	6V47/EVV	*PAT/EVV
C3082	6V47/EVV	*PAT/EVV
C3090	*PAT/UN	*PAT/UN
C3098	*PAT/UN	*PAT/UN
C3099	*PAT/UN	*PAT/UN
C3111	*PAT/UN	*PAT/UN
C3201	*PAT/UN	*PAT/UN
C3232	*PAT/UBN	*PAT/UBN
C3238	*PAT/UN	*PAT/UN
C3247	6P/UN	*PAT/UN
C3272	*PAT/UN	*PAT/UN
C3280	*PAT/UN	*PAT/UN
C3458	*PAT/UFN	*PAT/UFN
C3489	0.01/UFN	*PAT/UFN
C3494	*PAT/UN	*PAT/UN
C3495	*PAT/UFN	*PAT/UFN
C3496	*PAT/UFN	*PAT/UFN
C3506	*PAT/UFN	*PAT/UFN
D3004	*PAT	*PAT
D3207	*PAT	*PAT
DL3401	*PAT	*PAT
DL3402	*PAT	*PAT
IC3010	*PAT	*PAT
L3010	*PAT/LA	*PAT/LA
L3205	*PAT/LA	*PAT/LA
L3414	*PAT/LA	*PAT/LA
L3415	6R8U/LA	*PAT/LA
P3601	VJS2848D018	*PAT
P3602	VJS2848D018	*PAT
P3603	VJP1233T	*PAT
Q3409	*PAT	*PAT
QR3004	*PAT	*PAT
QR3005	*PAT	*PAT
QR3204	*PAT	*PAT
QR3205	*PAT	*PAT
R3016	0/J6	*PAT/J6
R3023	3900/J6	*PAT/J6
R3046	*PAT/J6	*PAT/J6
R3049	*PAT/J6	*PAT/J6
R3059	*PAT/J6	*PAT/J6
R3060	*PAT/J6	*PAT/J6
R3065	*PAT/J6	*PAT/J6
R3067	*PAT/J6	*PAT/J6

REF	AG-7700	AG-7600
R3068	*PAT/J6	*PAT/J6
R3073	3900/J6	*PAT/J6
R3074	6800/J6	*PAT/J6
R3076	*PAT/J6	*PAT/J6
R3100	*PAT/J6	*PAT/J6
R3101	*PAT/J6	*PAT/J6
R3108	*PAT/J6	*PAT/J6
R3109	*PAT/J6	*PAT/J6
R3110	*PAT/J6	*PAT/J6
R3111	*PAT/J6	*PAT/J6
R3112	*PAT/J6	10K/J6
R3207	*PAT/J6	*PAT/J6
R3217	*PAT/J6	*PAT/J6
R3283	*PAT/J6	*PAT/J6
R3294	*PAT/J6	*PAT/J6
R3296	*PAT/J6	*PAT/J6
R3442	*PAT/J6	*PAT/J6
R3447	*PAT/J6	*PAT/J6
R3453	*PAT/J6	*PAT/J6
R3454	*PAT/J6	*PAT/J6
R3456	*PAT/J6	*PAT/J6
R3459	*PAT/J6	*PAT/J6
R3464	*PAT/J6	0/J6
R3466	*PAT/J6	*PAT/J6
R3469	*PAT/J6	*PAT/J6
R3480	*PAT/J6	*PAT/J6
R3481	*PAT/J6	*PAT/J6
R3482	*PAT/J6	*PAT/J6
R3483	*PAT/J6	*PAT/J6
R3497	*PAT/J6	*PAT/J6
R3498	100/J6	*PAT/J6
R3505	*PAT/J6	*PAT/J6
R3535	*PAT/J6	*PAT/J6
R3552	*PAT/J6	*PAT/J6
TH3001	*PAT	*PAT
TP3003	VJR0098	*PAT
TP3005	VJR0098	*PAT
VC3202	ECV1ZW20X60	*PAT
VR3001	5KB	*PAT
VR3002	5KB	*PAT
VR3007	5KB	*PAT
VR3405	1KB	*PAT

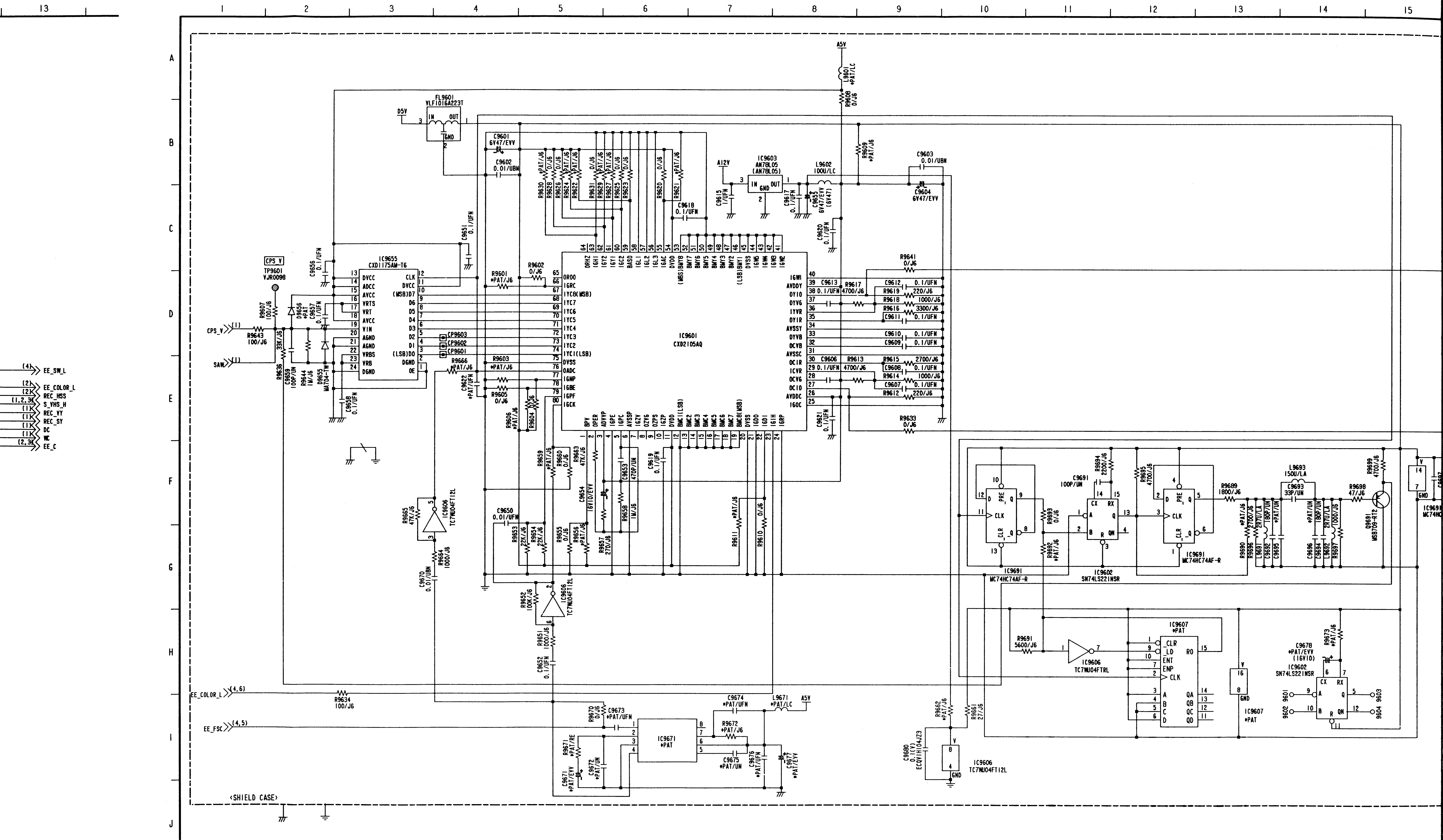
VIDEO YC-5 SCHEMATIC DIAGRAM 5/6 (E6: Page CBA-7)


1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
G
H
I
J
DL_EE_SW_L (3)
CPS_H (2)
RF_C (2)
ROTARY_SW (2,3)
VV_Y (1)
MOD_Y (1)
A_COLOR_L (2)
COLOR_L (2)
C_OUT (3)
P3632
VJP3176B064
A12V
A5V
-5V
A | NO | B
VITC_REC | 1 | A12V
GND | 2 | A5V
VITC_MUTE | 3 | -5V
DL_EE_SW_L | 4 | A_GND
CPS_H | 5 | GND
EE_SW(L) | 6 | RF_Y
RF_C | 7 | GND
GND | 8 | EE_C
VD_SYNC | 9 | B/W(L)
EE_Y | 10 | V_HSW
AGC_LEV | 11 | FSC
V_METER | 12 | PIC_VR
RTSW | 13 | VV_SYNC
S_VIDEO(L) | 14 | HD_SYNC
VV_Y | 15 | V_EE(H)
GND | 16 | SYNC_TIP_P
MOD_Y | 17 | GND
S_VHS(H) | 18 | REC_C
4P_C | 19 | TRICK(L)
GND | 20 | NC_Y
LINE_Y | 21 | EDIT(H)
NORMAL(H) | 22 | Y_DOP(L)
 | 23 | AGC_VIDEO
REC_FRM | 24 | PB_FRM
REC_HSS | 25 | PB_HSS
REC_PALP | 26 | PB_PALP
A_COLOR(L) | 27 | A_DUB(L)
COLOR(L) | 28 | LNC_Y
C_OUT | 29 | GND
SIG_DET(L) | 30 | PP
D5.5V | 31 | D5.5V
D_GND | 32 | D_GND
(1) RF_Y
(2) BW_L
(1) V_HSW
(2) PB_FSC
(1) PIC_VR
(2) VV_SYNC
(4) EE_H
(1) SYNC_TIP_P
(2) 627_REC_C
(2,3) TRICK_L
(3) CNR_Y
(1,3) EDIT_H
(1) Y_DOP_L
(4) PB_FRM
(4) PB_PALP
(3) LNC_Y
AG-7700 ONLY
P3601
18 EE_SW_L
17
16 VITC_REC
15 VITC_MUTE
14 REC_PALP
13 REC_FRM
12 REC_HSS
11
10
9 EE_COLOR_L
8 LINE_Y
7 GND
6 EE_Y
5
4
3 AGC_LEV
2 GND
1 AGC_VIDEO
CP3607 (4) EE_SW_L
CP3601 (2) EE_COLOR_L
(2) REC_HSS
(1,2,3) S_VHS_H
CP3602 (1) REC_VY
CP3603 (1) REC_SY
CP3604 (1) DC
CP3605 (1) WC
CP3606 (2,3) EE_C
AG-7700 ONLY
P3602
18 COLOR_L
17 A_COLOR(L)
16 B/W_L
15 V_METER
14
13 S_VIDEO(L)
12
11 EE_SIG_DET_L
10 4P_C
9 GND
8 EE_C
7 WC
6
5 DC
4 REC_SY
3 GND
2 REC_VY
1
P3603
1 A_GND
2 A5V
3 D5.5V
4 -5V
5 D_GND
6 A12V
Ref No.3600 Series.

YC REC-2 SCHEMATI


1
2
A
B
C
D
E
F
G
H
I
J
CPS_V
TP9601
VJR0098
C9656
0.1/UFN
R9607
100/J6
D9656
*PAT
C9657
0.1/UFN
CPS_V (1)
R9643
100/J6
33K/J6
SAW (1)
R9636
C9659
100P/UN
R9644
1M/J6
D9655
MA704-TW
C9658
0.1/UFN
13
14
15
16
17
18
19
20
21
22
23
24
EE_COLOR_L (4,6)
R9634
100/J6
EE_FSC (4,5)
<SHIELD CASE>

YC REC-2 SCHEMATIC DIAGRAM 2/6 (E13: AG-7700 0NLY/Page CBA-6)

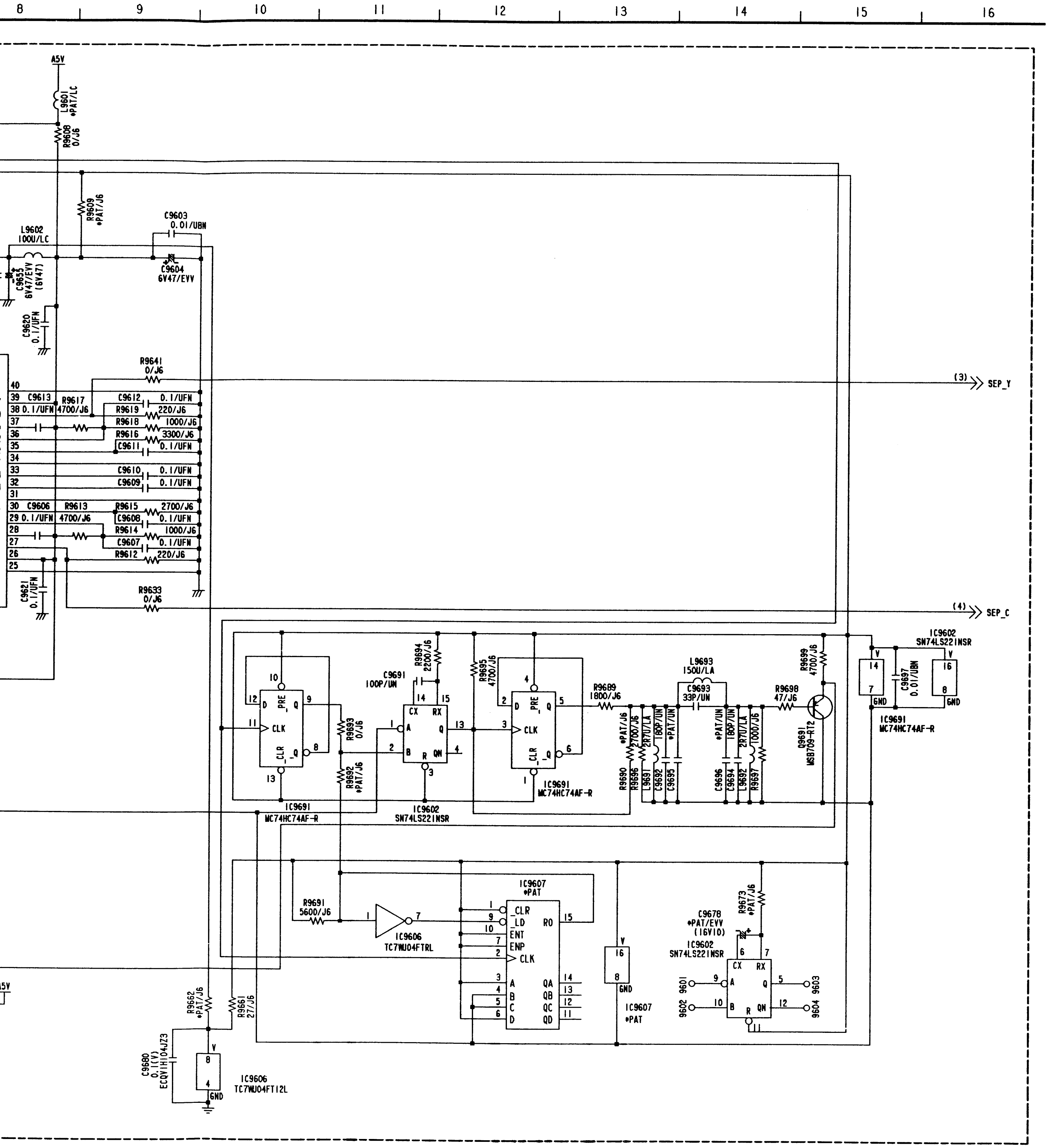


IC9601
CXD2105AQ
IC9655
CXD1175AM-T6
IC9603
AN78L05
(AN78L05)
FL9601
VLF1016A223T
IC9671
*PAT
IC9606
TC7WU04FT12L
IC9606
TC7WU04FTRL
IC9691
MC74HC74AF-R
IC9602
SN74LS221NSR
IC9607
*PAT
Q9691
MSB709-RT2
D9655
MA704-TW
TP9601
YJR0098
CPS_V
CPS_V
SAW
EE_COLOR_L
EE_FSC
EE_SW_L
EE_COLOR_L
REC_HSS
S_VHS_H
REC_VY
REC_SY
DC
WC
EE_C
A5V
A12V
D5V
<SHIELD CASE>

Ref No.3600 Series.

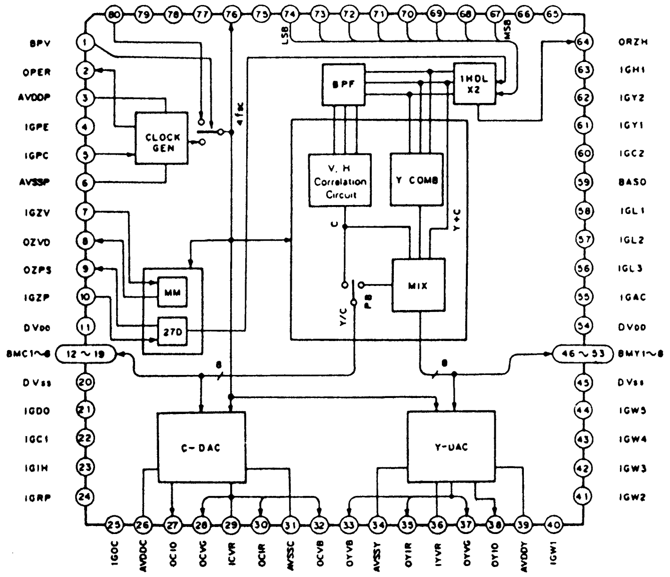
*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CH

Ref No.9601~9699

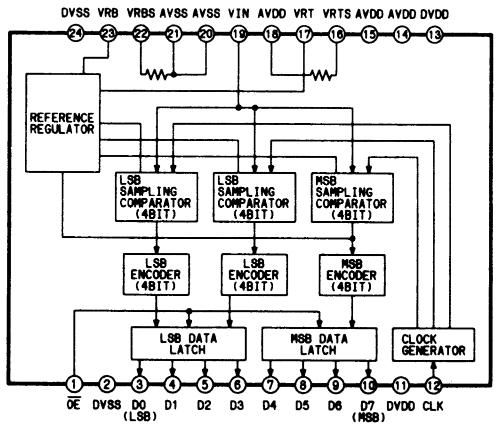

8
9
10
11
12
13
14
15
16
A5V
L9601 *PAT/LC
R9608 0/J6
R9609 *PAT/J6
L9602 100U/LC
C9603 0.01/UBN
C9604 6V47/EVY
C9655 6V47/EVY (6V47)
C9620 0.1/UFN
R9641 0/J6
C9613 0.1/UFN
R9617 4700/J6
C9612 0.1/UFN
R9619 220/J6
R9618 1000/J6
R9616 3300/J6
C9611 0.1/UFN
C9610 0.1/UFN
C9609 0.1/UFN
C9606 0.1/UFN
R9613 4700/J6
R9615 2700/J6
C9608 0.1/UFN
R9614 1000/J6
C9607 0.1/UFN
R9612 220/J6
C9621 0.1/UFN
R9633 0/J6
(3) SEP_Y
(4) SEP_C
IC9691 MC74HC74AF-R
C9691 100P/UN
R9694 2200/J6
R9695 4700/J6
R9693 0/J6
R9692 *PAT/J6
IC9602 SN74LS221NSR
R9689 1800/J6
L9693 150U/LA
C9693 33P/UN
R9698 47/J6
R9699 4700/J6
Q9691 MSB709-RT2
R9690 *PAT/J6
R9696 2700/J6
L9691 2R7U/LA
C9692 180P/UN
C9695 *PAT/UN
C9696 *PAT/UN
C9694 180P/UN
L9692 2R7U/LA
R9697 1000/J6
C9697 0.01/UBN
IC9602 SN74LS221NSR
IC9691 MC74HC74AF-R
R9691 5600/J6
IC9606 TC7WU04FTRL
IC9607 *PAT
C9678 *PAT/EVY (16V10)
R9673 *PAT/J6
IC9602 SN74LS221NSR
9601
9602
9603
9604
R9662 *PAT/J6
R9661 27/J6
C9680 0.1(V) ECQV1H104JZ3
IC9606 TC7WU04FT12L
A5V
GND

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART
Ref No.9601~9699 Series

IC9601
CXD2105AQ


IGCK
IGPF
IGBE
IGNP
OADC
DVss
IYC1
IYC2
IYC3
IYC4
IYC5
IYC6
IYC7
IYC8
IGRC
ORDO
BPV
OPER
AVDDP
IGPE
IGPC
AVSSP
IGZV
OZVD
OZPS
IGZP
DVDD
BMC1~8
DVss
IGDO
IGC1
IGIH
IGRP
ORZH
IGH1
IGY2
IGY1
IGC2
BASO
IGL1
IGL2
IGL3
IGAC
DVDD
BMY1~8
DVss
IGW5
IGW4
IGW3
IGW2
IGOC
AVDDC
OCIO
OCVG
ICVR
OCIR
AVSSC
OCVB
OYVB
AVSSY
OYIR
IYVR
OYVG
OYIO
AVDDY
IGW1
LSB
MSB
4fsc
CLOCK GEN
BPF
1HDL X2
V, H Correlation Circuit
Y COMB
C
Y+C
MIX
MM
27D
Y/C
PB
8
C-DAC
Y-UAC
12~19
46~53

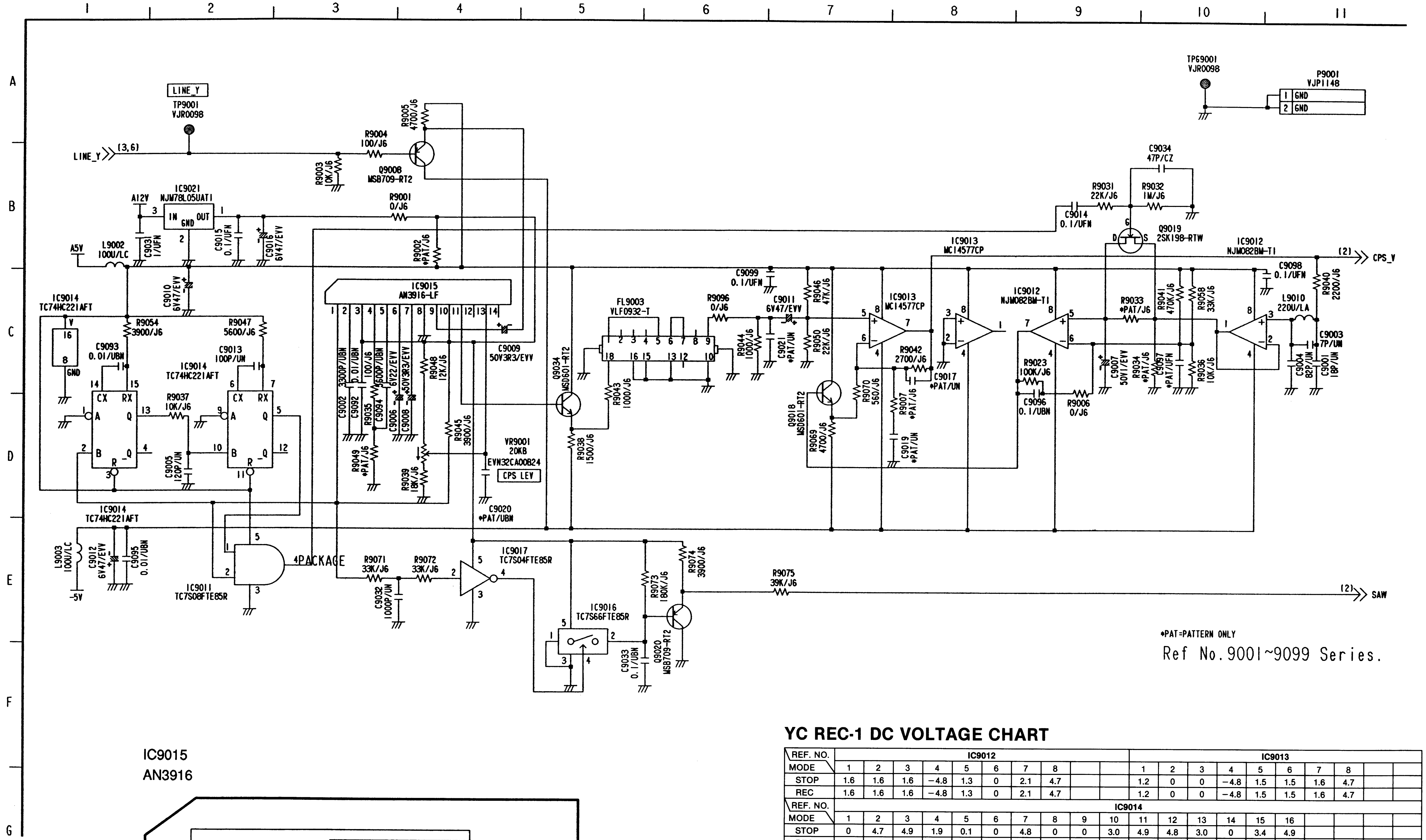
IC9655
CXD1175AM


DVSS
VRB
VRBS
AVSS
AVSS
VIN
AVDD
VRT
VRTS
AVDD
AVDD
DVDD
REFERENCE REGULATOR
LSB SAMPLING COMPARATOR (4BIT)
LSB SAMPLING COMPARATOR (4BIT)
MSB SAMPLING COMPARATOR (4BIT)
LSB ENCODER (4BIT)
LSB ENCODER (4BIT)
MSB ENCODER (4BIT)
LSB DATA LATCH
MSB DATA LATCH
CLOCK GENERATOR
OE
DVSS
D0 (LSB)
D1
D2
D3
D4
D5
D6
D7 (MSB)
DVDD
CLK

YC REC-2 DC VOLTAGE CHART

REF. NO.	IC9601									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	1.7	4.9	0.1	1.8	0.1	0	0	0	0
REC	0	1.7	4.9	0.1	1.8	0.1	0	0	0	0
REF. NO.	IC9601									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	4.9	0	0	0	0	0	0	0	0	0
REC	4.9	0	0	0	0	0	0	0	0	0
REF. NO.	IC9601									
MODE	21	22	23	24	25	26	27	28	29	30
STOP	0	0	0.1	0	0	4.9	0.5	3.4	0.8	0.9
REC	0	0	0.1	0	0	4.9	0.5	3.4	0.8	0.9
REF. NO.	IC9601									
MODE	31	32	33	34	35	36	37	38	39	40
STOP	0	0.4	0.4	0	0.9	0.8	3.5	0.4	4.9	0
REC	0	0.4	0.4	0	0.9	0.8	3.5	0.4	4.9	0
REF. NO.	IC9601									
MODE	41	42	43	44	45	46	47	48	49	50
STOP	0	0	0	0	0	0	0	0	0	0
REC	0	0	0	0	0	0	0	0	0	0
REF. NO.	IC9601									
MODE	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	5.1	5.1	0	0	0	0	0
REC	0	0	0	5.1	5.1	0	0	0	0	0
REF. NO.	IC9601									
MODE	61	62	63	64	65	66	67	68	69	70
STOP	5.1	5.1	0	0	0	5.1	1.6	2.8	1.1	2.7
REC	5.1	5.1	0	0	0	5.1	1.6	2.9	1.0	2.8
REF. NO.	IC9601									
MODE	71	72	73	74	75	76	77	78	79	80
STOP	1.5	2.1	1.2	1.2	0	1.2	5.1	0	2.4	0
REC	1.6	2.1	1.3	1.2	0	1.2	5.1	0	2.4	0
REF. NO.	IC9602									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	2.2	4.9	0.4	0.1	5.1	0.4	0	1.4	0.8
REC	0	2.2	4.9	0.4	0.1	5.1	0.3	0	1.4	0.8
REF. NO.	IC9602									
MODE	11	12	13	14	15	16				
STOP	5.1	0.1	2.1	1.6	1.2	5.1				
REC	5.1	0.1	2.1	1.6	1.2	5.1				
REF. NO.	IC9603									
MODE	1	2	3							
STOP	5.1	0	11.4							
REC	5.1	0	11.4							
REF. NO.	IC9606									
MODE	1	2	3	4	5	6	7	8		
STOP	5.1	2.5	0	0	4.9	2.5	0	4.9		
REC	5.1	2.5	0	0	4.9	2.5	0	4.9		
REF. NO.	IC9655									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	1.2	1.1	2.1	1.4	2.7	1.1	2.8	1.6
REC	0	0	1.2	1.5	2.1	1.7	2.8	1.0	2.8	1.6
REF. NO.	IC9655									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	4.9	1.2	4.9	4.9	0	2.7	2.7	4.9	1.6	0
REC	4.9	1.1	4.9	4.9	0	2.7	2.7	4.9	1.6	0
REF. NO.	IC9655									
MODE	21	22	23	24						
STOP	0	0.6	0.6	0						
REC	0	0.6	0.6	0						
REF. NO.	IC9691									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	4.9	2.5	2.1	4.9	2.4	2.5	0	2.1	2.2	5.1
REC	4.9	2.5	2.1	4.9	2.4	2.5	0	2.1	2.2	5.1
REF. NO.	IC9691									
MODE	11	12	13	14						
STOP	1.2	2.1	5.1	5.1						
REC	1.2	2.1	5.1	5.1						
REF. NO.	Q9691									
MODE	E	C	B							
STOP	0.5	0	0							
REC	0.5	0	0							

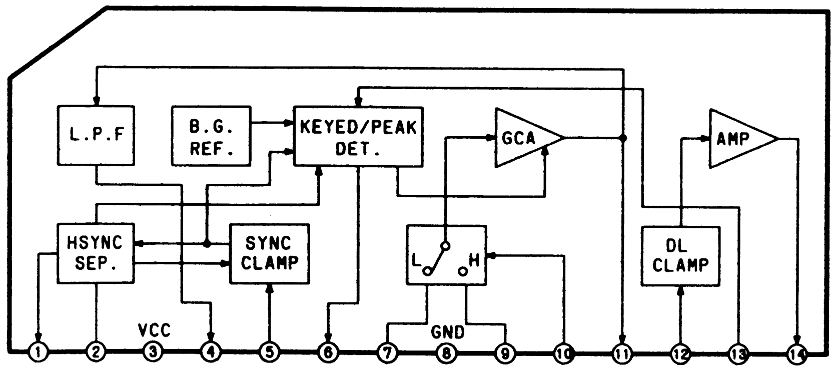
YC REC-1 SCHEMATIC DIAGRAM 1/6 (E13: AG-7700 0NLY/Page CBA-6)


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
LINE_Y
TP9001
VJR0098
LINE_Y
(3,6)
R9004
100/J6
R9005
4700/J6
R9003
10K/J6
Q9008
MSB709-RT2
R9001
0/J6
R9002
*PAT/J6
IC9021
NJM78L05UAT1
A12V
IN
OUT
GND
C9031
1/UFN
C9015
0.1/UFN
C9016
6V47/EVV
A5V
L9002
100U/LC
C9010
6V47/EVV
IC9014
TC74HC221AFT
R9054
3900/J6
R9047
5600/J6
C9093
0.01/UBN
C9013
100P/UN
R9037
10K/J6
C9005
120P/UN
CX
RX
GND
IC9015
AN3916-LF
C9002
3300P/UBN
C9092
0.01/UBN
R9035
100/J6
C9094
560P/UBN
C9006
6V22/EVV
C9008
50V3R3/EVV
R9048
12K/J6
R9049
*PAT/J6
R9039
18K/J6
R9045
3900/J6
VR9001
20KB
EVN32CA00B24
CPS LEV
C9009
50V3R3/EVV
C9020
*PAT/UBN
Q9034
MSD601-RT2
R9038
1500/J6
R9043
1000/J6
FL9003
VLF0932-T
R9096
0/J6
C9099
0.1/UFN
C9011
6V47/EVV
R9044
1000/J6
C9021
*PAT/UN
R9046
47K/J6
R9050
22K/J6
IC9013
MC14577CP
R9042
2700/J6
C9017
*PAT/UN
Q9018
MSD601-RT2
R9069
4700/J6
R9070
560/J6
R9007
*PAT/J6
C9019
*PAT/UN
IC9012
NJM082BM-T1
R9023
100K/J6
C9096
0.1/UBN
R9006
0/J6
C9014
0.1/UFN
R9031
22K/J6
R9032
1M/J6
C9034
47P/CZ
Q9019
2SK198-RTW
C9007
50V1/EVV
R9033
*PAT/J6
R9034
*PAT/J6
C9067
*PAT/UFN
R9041
470K/J6
R9058
33K/J6
R9036
10K/J6
C9098
0.1/UFN
L9010
220U/LA
R9040
2200/J6
C9003
7P/UN
C9004
82P/UN
C9001
18P/UN
CPS_Y
(2)
TP69001
VJR0098
P9001
VJP1148
GND
GND
L9003
100U/LC
C9012
6V47/EVV
C9095
0.01/UBN
-5V
IC9011
TC7S08FTE85R
PACKAGE
R9071
33K/J6
R9072
33K/J6
C9032
1000P/UN
IC9017
TC7S04FTE85R
IC9016
TC7S66FTE85R
C9033
0.1/UBN
R9073
180K/J6
R9074
3900/J6
Q9020
MSB709-RT2
R9075
39K/J6
SAW
(2)

*PAT=PATTERN ONLY

Ref No.9001~9099 Series.

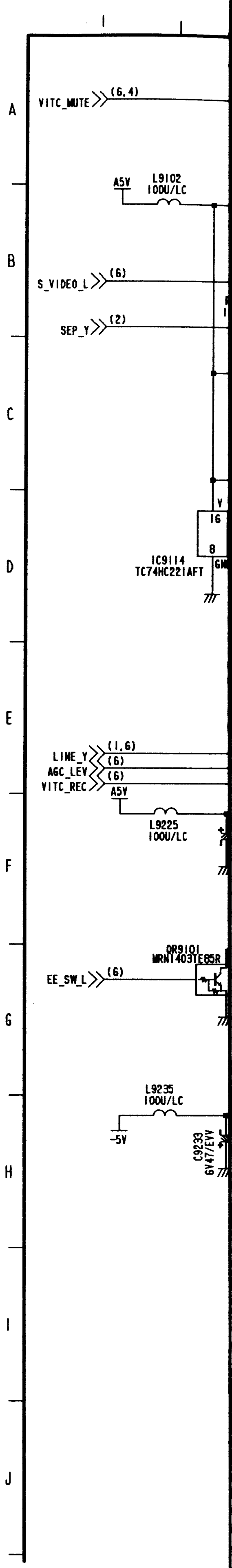
IC9015
AN3916

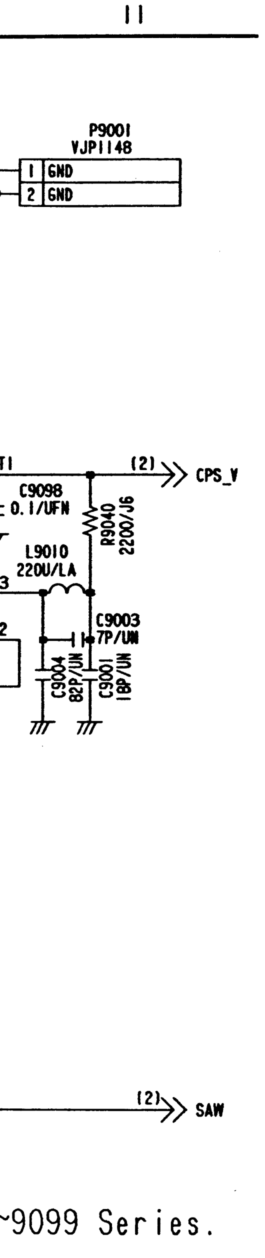

L.P.F
B.G.
REF.
KEYED/PEAK
DET.
GCA
AMP
HSYNC
SEP.
SYNC
CLAMP
L
H
DL
CLAMP
VCC
GND
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭

YC REC-1 DC VOLTAGE CHART

REF. NO.	IC9012										IC9013									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
STOP	1.6	1.6	1.6	−4.8	1.3	0	2.1	4.7			1.2	0	0	−4.8	1.5	1.5	1.6	4.7		
REC	1.6	1.6	1.6	−4.8	1.3	0	2.1	4.7			1.2	0	0	−4.8	1.5	1.5	1.6	4.7		
REF. NO.	IC9014																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	4.7	4.9	1.9	0.1	0	4.8	0	0	3.0	4.9	4.8	3.0	0	3.4	4.9				
REC	0	4.7	4.9	1.9	0.1	0	4.8	0	0	3.0	4.9	4.8	3.0	0	3.4	4.9				
REF. NO.	IC9015																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	4.7	3.0	5.1	2.0	1.7	2.2	3.0	0	2.9	5.1	2.8	3.0	2.3	1.6						
REC	4.7	3.0	5.1	2.0	1.7	2.2	3.0	0	2.9	5.1	2.8	3.0	2.3	1.6						
REF. NO.	IC9021																			
MODE	O	G	I																	
STOP	5.1	0	11.4																	
REC	5.1	0	11.4																	
REF. NO.	Q9008			Q9018			Q9019													
MODE	E	C	B	E	C	B	S	G	D											
STOP	0.6	−4.8	0	1.5	4.7	2.1	1.6	0	1.3											
REC	0.6	−4.8	0	1.5	4.9	2.2	1.6	0	1.3											

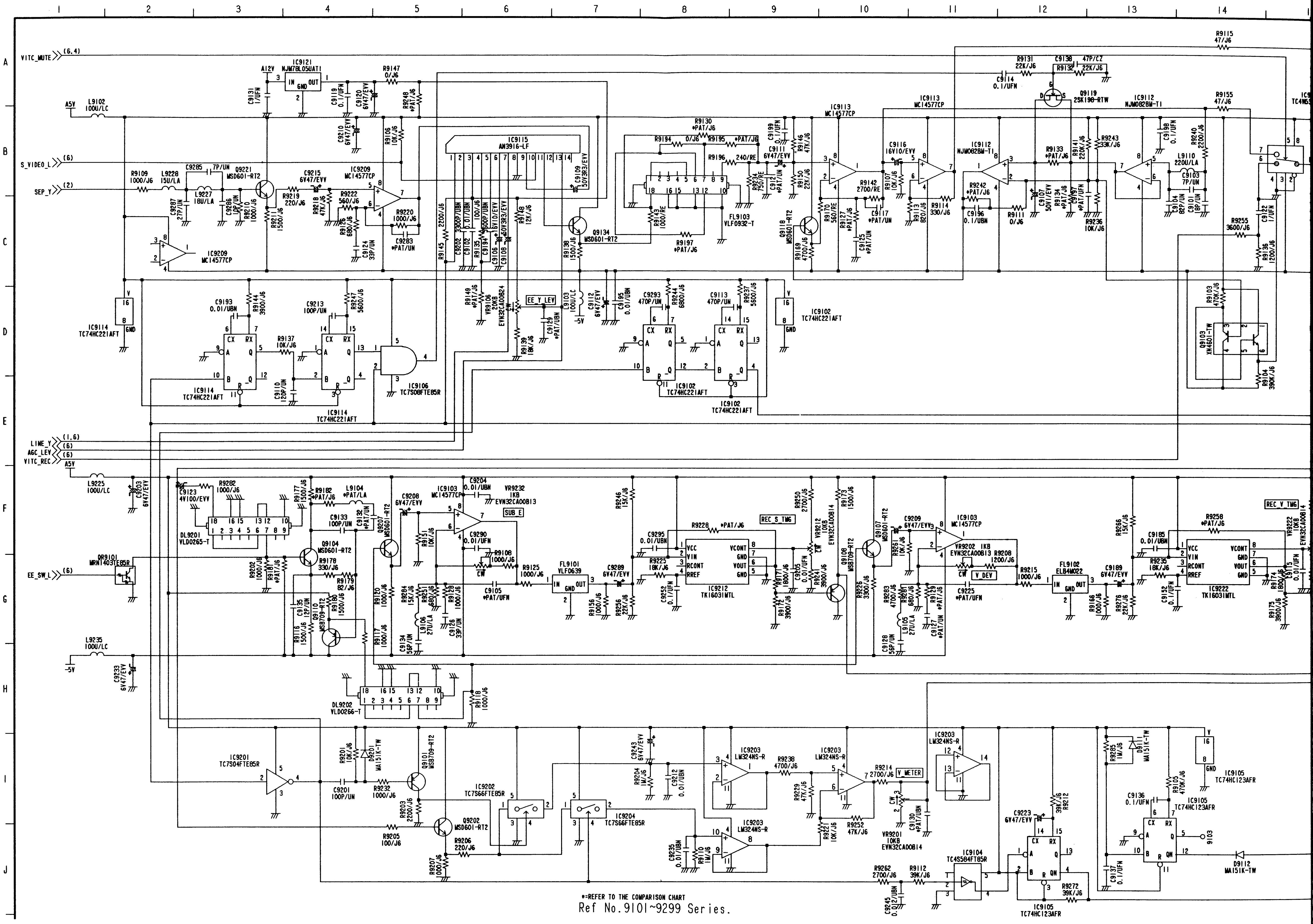
YC REC-3 SC


1
A
B
C
D
E
F
G
H
I
J
VITC_MUTE
(6,4)
A5V
L9102
100U/LC
S_VIDEO_L
(6)
SEP_Y
(2)
IC9114
TC74HC221AFT
LINE_Y
(1,6)
AGC_LEV
(6)
VITC_REC
(6)
A5V
L9225
100U/LC
QR9101
MRN1403TE85R
EE_SW_L
(6)
L9235
100U/LC
-5V
C9233
6V47/EVV


P9001
VJP1148
1 GND
2 GND
C9098
0.1/UFN
(2) CPS_V
R9040
2200/J6
L9010
220U/LA
C9003
7P/UN
C9004
82P/UN
C9001
18P/UN
(2) SAW
~9099 Series.

C9013					
	6	7	8		
	1.5	1.6	4.7		
	1.5	1.6	4.7		
	16				
	4.9				
	4.9				

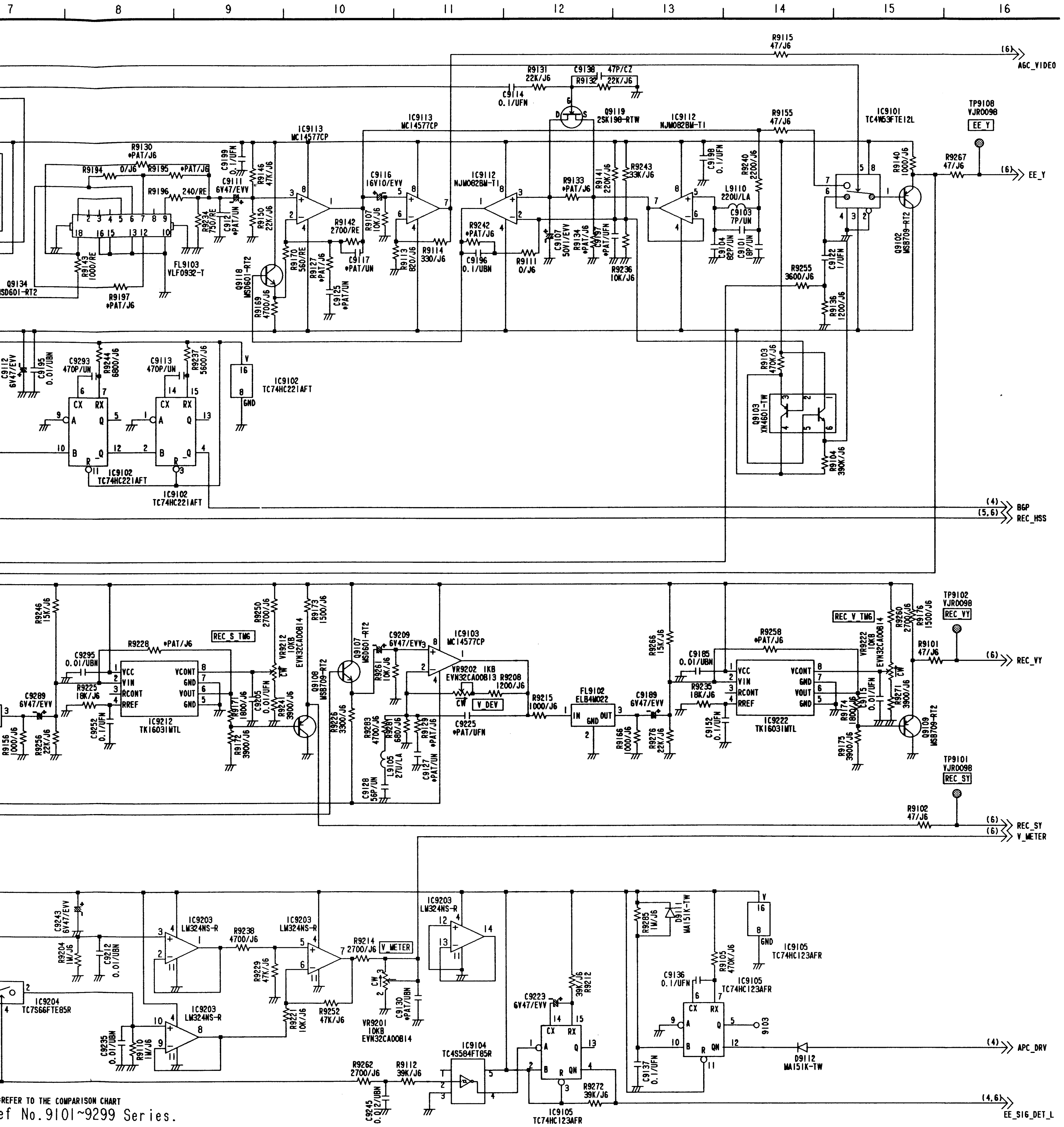
YC REC-3 SCHEMATIC DIAGRAM 3/6 (E13: AG-7700 0NLY/Page CBA-6)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
J
VITC_MUTE (6,4)
A5V
S_VIDEO_L (6)
SEP_Y (2)
LINE_Y (1,6)
AGC_LEV (6)
VITC_REC (6)
EE_SW_L (6)
-5V
IC9121
NJM78L05UAT1
A12V
IC9115
AN3916-LF
IC9209
MC14577CP
Q9221
MSD601-RT2
IC9114
TC74HC221AFT
IC9106
TC7S08FTE85R
IC9102
TC74HC221AFT
Q9134
MSD601-RT2
FL9103
VLF0932-T
IC9113
MC14577CP
IC9112
NJM082BM-T1
Q9119
2SK198-RTW
Q9118
MSD601-RT2
Q9103
XN4601-TW
EE_Y_LEV
VR9106
EVN32CA00B24
DL9201
YLD0265-T
QR9101
MRN1403TE85R
Q9104
MSD601-RT2
Q9110
MSB709-RT2
Q9207
MSD601-RT2
IC9103
MC14577CP
VR9232
1KB
EVN32CA00B13
SUB_E
FL9101
YLF0639
IC9212
TK16031MTL
REC_S_TMG
VR9212
10KB
EVN32CA00B14
Q9108
MSB709-RT2
Q9107
MSD601-RT2
VR9202 1KB
EVN32CA00B13
V_DEV
FL9102
ELB4M022
IC9222
TK16031MTL
REC_V_TMG
VR9222
10KB
DL9202
YLD0266-T
IC9201
TC7S04FTE85R
Q9101
MSB709-RT2
Q9202
MSD601-RT2
IC9202
TC7S66FTE85R
IC9204
TC7S66FTE85R
IC9203
LM324NS-R
V_METER
VR9201
10KB
EVN32CA00B14
IC9104
TC4S584FTE85R
IC9105
TC74HC123AFR
D9112
MA151K-TW
D9201
MA151K-TW
D9111
MA151K-TW
9103

*=REFER TO THE COMPARISON CHART

Ref No.9101~9299 Series.

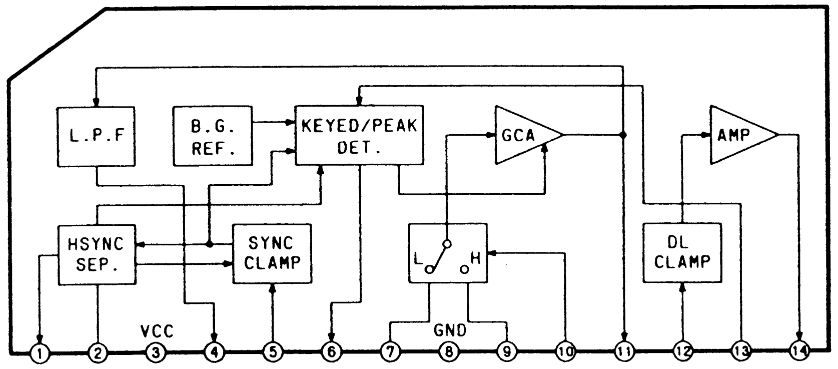
age CBA-6)


7
8
9
10
11
12
13
14
15
16
R9115 47/J6
(6) AGC_VIDEO
IC9101 TC4W53FTE12L
TP9108 VJR0098 EE_Y
R9267 47/J6
(6) EE_Y
Q9102 MSB709-RT2
Q9119 2SK198-RTW
IC9112 NJM082BM-T1
IC9113 MC14577CP
FL9103 VLF0932-T
Q9134 MSD601-RT2
Q9118 MSD601-RT2
L9110 220U/LA
Q9103 XN4601-TW
IC9102 TC74HC221AFT
(4) BGP
(5,6) REC_HSS
TP9102 VJR0098 REC_VY
REC_S_TMG
REC_V_TMG
IC9212 TK16031MTL
IC9222 TK16031MTL
IC9103 MC14577CP
VR9202 1KB EVN32CA00B13
V_DEV
FL9102 ELB4M022
Q9107 MSD601-RT2
Q9108 MSB709-RT2
Q9109 MSB709-RT2
(6) REC_VY
TP9101 VJR0098 REC_SY
R9101 47/J6
R9102 47/J6
(6) REC_SY
(6) V_METER
IC9203 LM324NS-R
V_METER
VR9201 10KB EVN32CA00B14
IC9204 TC7S66FTE85R
IC9104 TC4S584FTE85R
IC9105 TC74HC123AFR
D9111 MA151K-TW
D9112 MA151K-TW
(4) APC_DRV
(4,6) EE_SIG_DET_L
REFER TO THE COMPARISON CHART
ef No.9101~9299 Series.

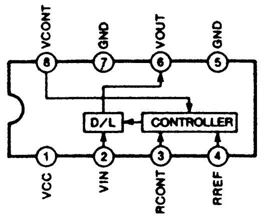
YC REC-3 DC VOLTAGE CHART

REF. NO.	IC9101																	
MODE	1	2	3	4	5	6	7	8										
STOP	1.4	0	−4.6	0	0	1.2	1.4	4.6										
REC	1.4	0	−4.6	0	0.2	1.2	1.4	4.6										
REF. NO.	IC9102																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	4.3	4.6	4.3	0.3	0	4.4	0	0	0.3	4.6	4.3	0.2	0	4.4	4.6		
REC	0	4.3	4.6	4.3	0.3	0	4.4	0	0	0.3	4.6	4.3	0.2	0	4.4	4.6		
REF. NO.	IC9103									IC9104								
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5				
STOP	0	0	0	−4.7	0	0	0	4.6		0	0.3	0	4.5	4.6				
REC	0	0	0	−4.7	0	0	0	4.6		0	0.3	0	4.5	4.6				
REF. NO.	IC9105																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	4.5	4.6	4.6	0	0	0	4.4	0	0	4.1	4.6	4.6	4.6	0	1.3	4.6		
REC	4.5	4.6	4.6	0	0	0	4.4	0	0	4.1	4.6	4.6	4.6	0	1.3	4.6		
REF. NO.	IC9112									IC9113								
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8	
STOP	2.1	1.2	1.2	−4.6	1.4	1.4	1.4	4.6		1.4	1.4	1.4	−4.6	0	−0.1	0	4.6	
REC	2.1	1.2	1.2	−4.6	1.4	1.4	1.4	4.6		1.4	1.4	1.4	−4.6	0	−0.1	0	4.6	
REF. NO.	IC9114																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	2.7	4.6	4.5	2.7	0	3.3	0	0	4.6	4.6	1.9	0.1	0	4.5	4.6		
REC	0	2.7	4.6	4.5	2.7	0	3.3	0	0	4.6	4.6	1.9	0.1	0	4.5	4.6		
REF. NO.	IC9115																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14				
STOP	4.6	3.0	5.0	1.9	1.6	2.2	3.0	0	2.9	3.2	2.6	3.0	2.9	1.6				
REC	4.6	3.0	5.0	1.9	1.6	2.2	2.9	0	2.9	3.2	2.6	3.0	2.9	1.6				
REF. NO.	IC9121									IC9201								
MODE	1	2	3							1	2	3	4	5				
STOP	5.0	0	11.4							0	4.6	0	0.3	4.6				
REC	5.0	0	11.4							0	4.6	0	0.3	4.6				
REF. NO.	IC9202																	
MODE	1	2	3	4	5	6	7	8										
STOP	1.4	1.2	0.3	0	0.9	1.4	0.2	4.6										
REC	1.4	1.2	0.3	0	0.9	1.4	0.2	4.6										
REF. NO.	IC9203																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14				
STOP	1.2	1.2	1.2	4.6	1.1	1.1	1.7	1.0	1.0	1.0	0	0.2	0.2	0				
REC	1.2	1.2	1.2	4.6	1.1	1.1	1.7	1.0	1.0	1.0	0	0.2	0.2	0				
REF. NO.	IC9209									IC9212								
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8	
STOP	−4.6	0	0	−4.6	0	0	0	4.6		4.6	2.7	2.5	2.2	0	2.7	0	2.2	
REC	−4.6	0	0	−4.6	0	0	0	4.6		4.6	2.7	2.5	2.2	0	2.8	0	2.2	
REF. NO.	IC9222																	
MODE	1	2	3	4	5	6	7	8										
STOP	4.6	2.7	2.5	2.4	0	2.7	0	2.5										
REC	4.6	2.7	2.5	2.4	0	2.7	0	2.5										
REF. NO.	Q9101			Q9102			Q9103						Q9104			Q9107		
MODE	E	C	B	E	C	B	1	2	3	4	5	6	E	C	B	E	C	B
STOP	4.6	0.2	4.5	2.0	−4.6	1.4	4.6	1.2	1.7	−4.6	1.7	1.2	−0.7	0.6	0	−0.7	4.6	0
REC	4.6	0.2	4.5	2.0	−4.6	1.4	4.6	1.2	1.7	−4.6	1.7	1.2	−0.7	0.6	0	−0.7	4.6	0
REF. NO.	Q9108			Q9109			Q9110			Q9118			Q9119			Q9134		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	S	G	D	E	C	B
STOP	2.5	0	1.9	2.5	0	1.9	0	−4.7	−0.7	1.5	4.6	2.1	1.4	0	1.4	2.0	4.6	2.6
REC	2.5	0	1.9	2.5	0	1.9	0	−4.7	−0.7	1.5	4.6	2.1	1.4	0	1.4	2.0	4.6	2.6
REF. NO.	Q9202			Q9207														
MODE	E	C	B	E	C	B												
STOP	1.4	4.6	2.0	−0.7	4.6	0												
REC	1.4	4.6	2.0	−0.7	4.6	0												

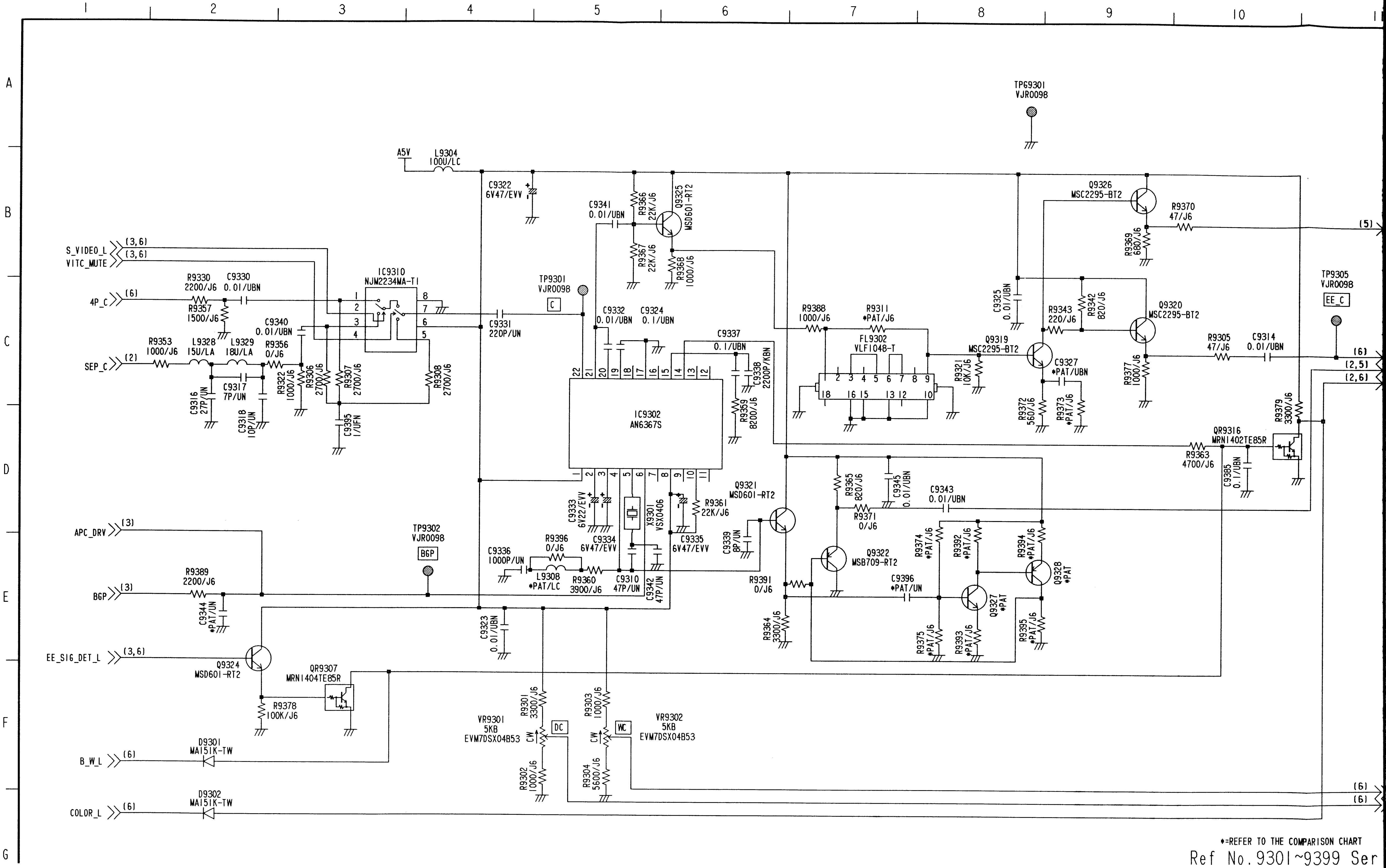
IC9115
AN3916


L.P.F
B.G. REF.
KEYED/PEAK DET.
GCA
AMP
HSYNC SEP.
SYNC CLAMP
L
H
DL CLAMP
VCC
GND
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭

IC9212,9222
TK16031MTL


VCONT
GND
VOUT
GND
⑧
⑦
⑥
⑤
D/L
CONTROLLER
①
②
③
④
VCC
VIN
RCONT
RREF

YC REC-4 SCHEMATIC DIAGRAM 4/6 (E13: AG-7700 0NLY/Page CBA-6)

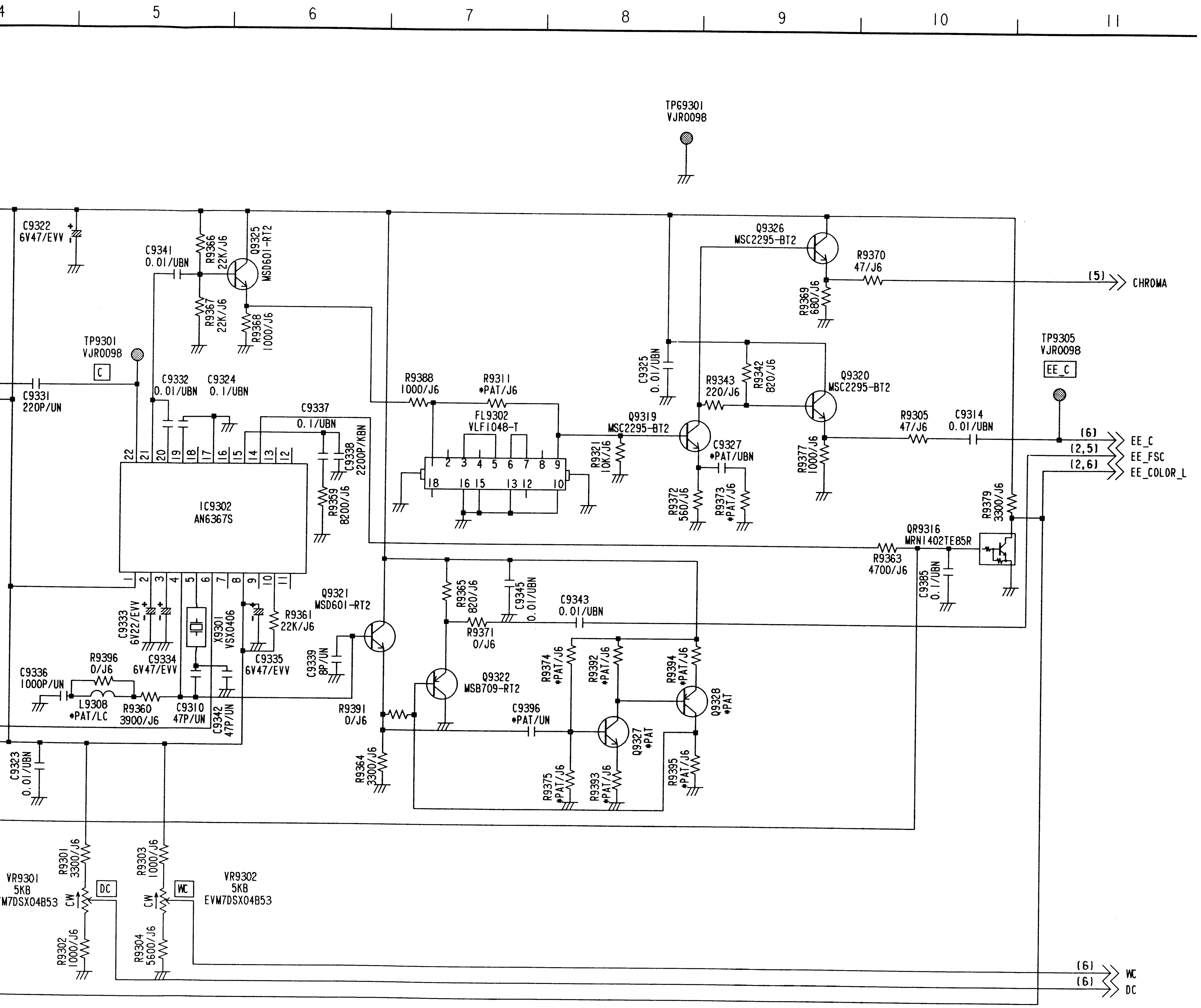


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
TP69301
VJR0098
A5V
L9304
100U/LC
C9322
6V47/EVV
C9341
0.01/UBN
R9366
22K/J6
Q9325
MSD601-RT2
R9367
22K/J6
R9368
1000/J6
Q9326
MSC2295-BT2
R9370
47/J6
R9369
680/J6
(5)
S_VIDEO_L
(3,6)
VITC_MUTE
(3,6)
4P_C
(6)
R9330
2200/J6
C9330
0.01/UBN
R9357
1500/J6
IC9310
NJM2234MA-T1
TP9301
VJR0098
C
C9331
220P/UN
C9340
0.01/UBN
SEP_C
(2)
R9353
1000/J6
L9328
15U/LA
L9329
18U/LA
R9356
0/J6
C9316
27P/UN
C9317
7P/UN
C9318
10P/UN
R9322
1000/J6
R9306
2700/J6
R9307
2700/J6
C9395
1/UFN
R9308
2700/J6
C9332
0.01/UBN
C9324
0.1/UBN
C9337
0.1/UBN
C9338
2200P/KBN
R9359
8200/J6
IC9302
AN6367S
R9388
1000/J6
R9311
*PAT/J6
FL9302
VLF1048-T
R9321
10K/J6
Q9319
MSC2295-BT2
C9327
*PAT/UBN
R9372
560/J6
R9373
*PAT/J6
C9325
0.01/UBN
R9343
220/J6
R9342
820/J6
Q9320
MSC2295-BT2
R9377
1000/J6
R9305
47/J6
C9314
0.01/UBN
TP9305
VJR0098
EE_C
(6)
(2,5)
(2,6)
R9379
3300/J6
QR9316
MRN1402TE85R
R9363
4700/J6
C9385
0.1/UBN
C9333
6V22/EVV
X9301
VSX0406
R9361
22K/J6
C9335
6V47/EVV
Q9321
MSD601-RT2
C9339
8P/UN
R9365
820/J6
C9345
0.01/UBN
R9371
0/J6
C9343
0.01/UBN
Q9322
MSB709-RT2
R9374
*PAT/J6
R9392
*PAT/J6
R9394
*PAT/J6
Q9328
*PAT
APC_DRV
(3)
TP9302
VJR0098
BGP
C9336
1000P/UN
R9396
0/J6
C9334
6V47/EVV
L9308
*PAT/LC
R9360
3900/J6
C9310
47P/UN
C9342
47P/UN
R9391
0/J6
C9396
*PAT/UN
Q9327
*PAT
BGP
(3)
R9389
2200/J6
C9344
*PAT/UN
C9323
0.01/UBN
R9364
3300/J6
R9375
*PAT/J6
R9393
*PAT/J6
R9395
*PAT/J6
EE_SIG_DET_L
(3,6)
Q9324
MSD601-RT2
QR9307
MRN1404TE85R
R9378
100K/J6
R9301
3300/J6
R9303
1000/J6
VR9301
5KB
EVM7DSX04B53
DC
CW
WC
CW
VR9302
5KB
EVM7DSX04B53
R9302
1000/J6
R9304
5600/J6
B_W_L
(6)
D9301
MA151K-TW
COLOR_L
(6)
D9302
MA151K-TW
(6)
(6)

*=REFER TO THE COMPARISON CHART

Ref No.9301~9399 Ser

7700 0NLY/Page CBA-6)


4
5
6
7
8
9
10
11
TPG9301
VJR0098
C9322
6V47/EVV
C9341
0.01/UBN
R9366
22K/J6
Q9325
MSD601-RT2
R9367
22K/J6
R9368
1000/J6
Q9326
MSC2295-BT2
R9370
47/J6
R9369
680/J6
(5)
CHROMA
TP9301
VJR0098
C
C9331
220P/UN
C9332
0.01/UBN
C9324
0.1/UBN
C9337
0.1/UBN
C9338
2200P/KBN
R9359
8200/J6
R9388
1000/J6
R9311
*PAT/J6
FL9302
VLF1048-T
C9325
0.01/UBN
Q9319
MSC2295-BT2
R9321
10K/J6
R9343
220/J6
R9342
820/J6
Q9320
MSC2295-BT2
C9327
*PAT/UBN
R9372
560/J6
R9373
*PAT/J6
R9377
1000/J6
R9305
47/J6
C9314
0.01/UBN
TP9305
VJR0098
EE_C
(6)
(2,5)
(2,6)
EE_C
EE_FSC
EE_COLOR_L
R9379
3300/J6
QR9316
MRN1402TE85R
R9363
4700/J6
C9385
0.1/UBN
IC9302
AN6367S
C9333
6V22/EVV
X9301
VSX0406
Q9321
MSD601-RT2
R9361
22K/J6
R9365
820/J6
C9345
0.01/UBN
C9343
0.01/UBN
R9371
0/J6
C9336
1000P/UN
R9396
0/J6
C9334
6V47/EVV
C9335
6V47/EVV
C9339
8P/UN
L9308
*PAT/LC
R9360
3900/J6
C9310
47P/UN
C9342
47P/UN
Q9322
MSB709-RT2
R9374
*PAT/J6
R9392
*PAT/J6
R9394
*PAT/J6
Q9328
*PAT
C9396
*PAT/UN
Q9327
*PAT
R9391
0/J6
R9364
3300/J6
R9375
*PAT/J6
R9393
*PAT/J6
R9395
*PAT/J6
C9323
0.01/UBN
R9301
3300/J6
R9303
1000/J6
VR9301
5KB
EVM7DSX04B53
DC
WC
VR9302
5KB
EVM7DSX04B53
CW
R9302
1000/J6
R9304
5600/J6
(6)
(6)
WC
DC

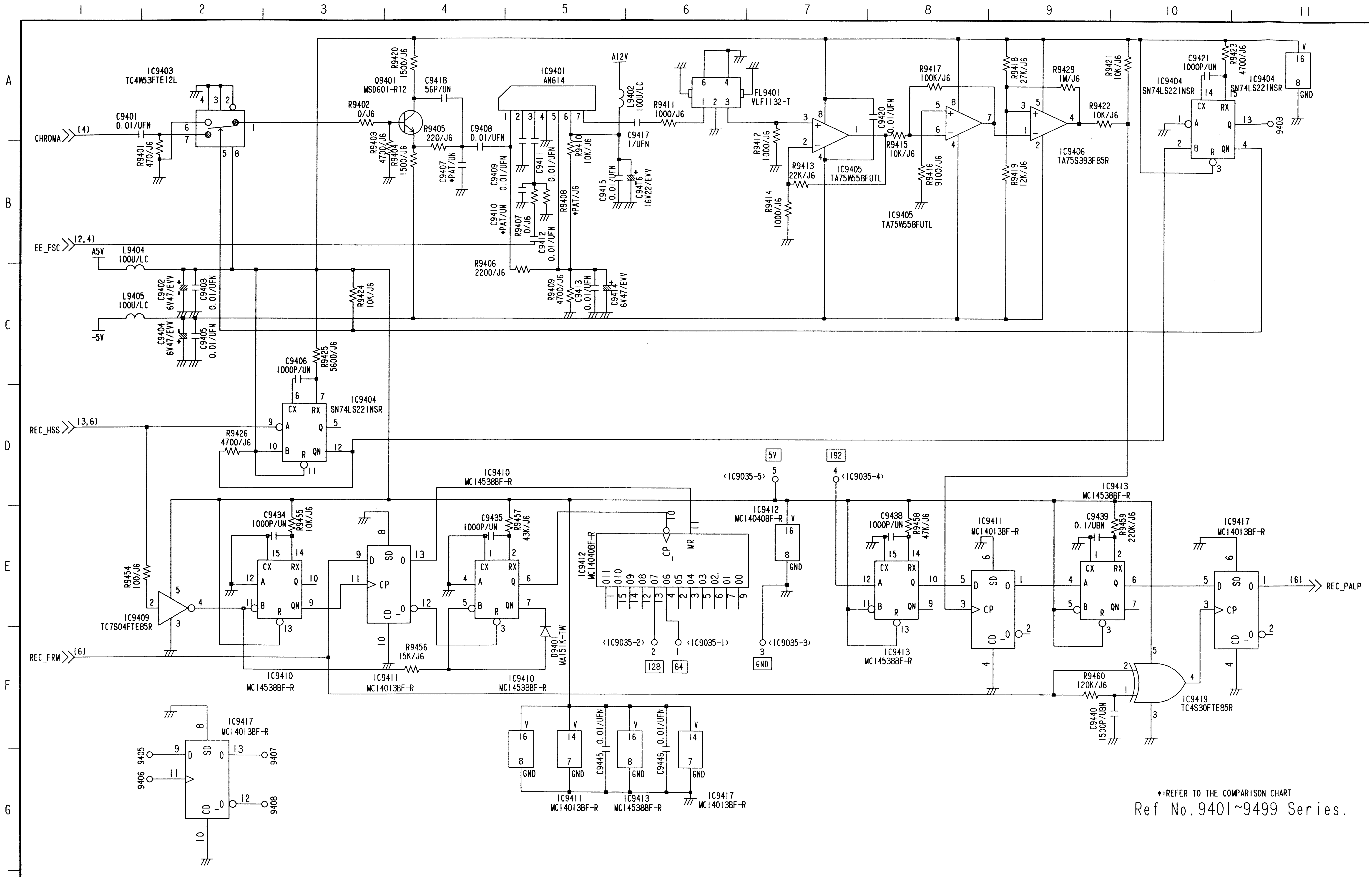
*=REFER TO THE COMPARISON CHART

Ref No.9301~9399 Series.

YC REC-4 DC VOLTAGE CHART

REF. NO.	IC9302									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	4.7	3.0	2.8	2.8	2.4	3.8	3.3	4.7	3.8	1.6
REC	4.7	3.0	3.0	2.8	2.4	3.8	3.3	4.7	3.8	1.6
REF. NO.	IC9302									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	4.0	0	1.9	2.6	2.2	4.6	0	2.8	2.4	2.9
REC	4.0	0	2.0	2.6	2.2	4.6	0	2.8	2.4	2.9
REF. NO.	IC9302									
MODE	21	22								
STOP	3.3	2.9								
REC	3.3	2.9								
REF. NO.	IC9310									
MODE	1	2	3	4	5	6	7	8		
STOP	2.8	3.2	2.8	0	2.8	4.7	2.1	0		
REC	2.8	3.2	2.8	0.2	2.8	4.7	2.1	0		
REF. NO.	Q9319			Q9320			Q9321			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0.8	3.2	1.5	2.8	4.7	3.5	2.2	4.7	2.8	
REC	0.8	3.2	1.5	2.8	4.7	3.5	2.2	4.7	2.8	
REF. NO.	Q9322			Q9324			Q9325			
MODE	E	C	B	E	C	B	E	C	B	
STOP	2.8	0	2.2	0	4.7	0	1.7	4.7	2.3	
REC	2.8	0	2.2	0	4.7	0	1.7	4.7	2.3	
REF. NO.	Q9326									
MODE	E	C	B							
STOP	2.4	4.7	3.2							
REC	2.4	4.7	3.2							
REF. NO.	QR9307			QR9316						
MODE	E	C	B	E	C	B				
STOP	0	2.2	0	0	0.1	2.2				
REC	0	2.2	0	0	0.1	2.2				

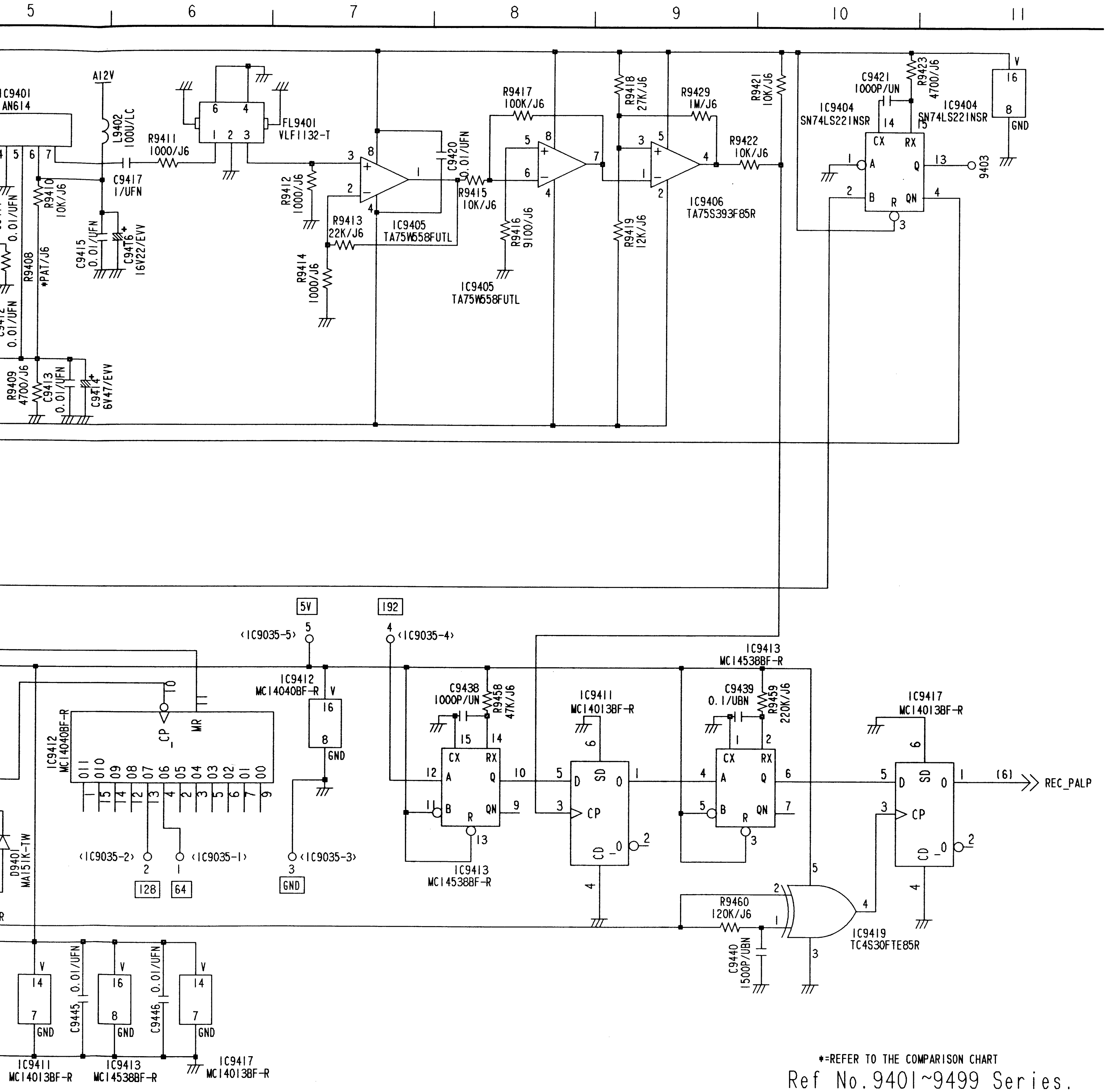
YC REC-5 SCHEMATIC DIAGRAM 5/6 (E13: AG-7700 0NLY/Page CBA-6)



1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
IC9403
TC4W53FTE12L
CHROMA
(4)
C9401
0.01/UFN
R9401
470/J6
Q9401
MSD601-RT2
R9420
1500/J6
C9418
56P/UN
R9402
0/J6
R9403
4700/J6
R9404
1500/J6
R9405
220/J6
C9407
*PAT/UN
C9408
0.01/UFN
IC9401
AN614
C9409
0.01/UFN
C9410
*PAT/UN
R9407
0/J6
C9411
0.01/UFN
C9412
0.01/UFN
R9410
10K/J6
R9408
*PAT/J6
A12V
L9402
100U/LC
C9417
1/UFN
C9415
0.01/UFN
C9416
16V22/EVV
R9411
1000/J6
FL9401
VLF1132-T
R9412
1000/J6
R9413
22K/J6
R9414
1000/J6
C9420
0.01/UFN
IC9405
TA75W558FUTL
R9415
10K/J6
R9416
9100/J6
R9417
100K/J6
R9418
27K/J6
R9419
12K/J6
R9429
1M/J6
R9421
10K/J6
R9422
10K/J6
IC9406
TA75S393F85R
C9421
1000P/UN
R9423
4700/J6
IC9404
SN74LS221NSR
9403
EE_FSC
(2,4)
A5V
L9404
100U/LC
C9402
6V47/EVV
C9403
0.01/UFN
L9405
100U/LC
-5V
C9404
6V47/EVV
C9405
0.01/UFN
R9424
10K/J6
R9406
2200/J6
R9409
4700/J6
C9413
0.01/UFN
C9414
6V47/EVV
C9406
1000P/UN
R9425
5600/J6
REC_HSS
(3,6)
R9426
4700/J6
CX
RX
Q
QN
SD
CD
CP
D
A
B
R
V
GND
5V
192
(IC9035-5)
(IC9035-4)
(IC9035-2)
(IC9035-1)
(IC9035-3)
128
64
IC9410
MC14538BF-R
IC9411
MC14013BF-R
IC9412
MC14040BF-R
IC9413
MC14538BF-R
IC9417
MC14013BF-R
IC9419
TC4S30FTE85R
C9434
1000P/UN
R9455
10K/J6
C9435
1000P/UN
R9457
43K/J6
C9438
1000P/UN
R9458
47K/J6
C9439
0.1/UBN
R9459
220K/J6
R9454
100/J6
IC9409
TC7S04FTE85R
REC_FRM
(6)
R9456
15K/J6
D9401
MA151K-TW
R9460
120K/J6
C9440
1500P/UBN
REC_PALP
(6)
C9445
0.01/UFN
C9446
0.01/UFN
9405
9406
9407
9408

*=REFER TO THE COMPARISON CHART

Ref No.9401~9499 Series.


5
6
7
8
9
10
11
IC9401
AN614
A12V
L9402
100U/LC
R9411
1000/J6
FL9401
VLF1132-T
C9417
1/UFN
R9410
10K/J6
0.01/UFN
C9415
0.01/UFN
C9416
16V22/EVV
R9408
*PAT/J6
C9412
0.01/UFN
R9409
4700/J6
C9413
0.01/UFN
C9414
6V47/EVV
R9412
1000/J6
R9413
22K/J6
R9414
1000/J6
C9420
0.01/UFN
IC9405
TA75W558FUTL
R9415
10K/J6
R9416
9100/J6
R9417
100K/J6
IC9405
TA75W558FUTL
R9418
27K/J6
R9419
12K/J6
R9429
1M/J6
IC9406
TA75S393F85R
R9421
10K/J6
R9422
10K/J6
C9421
1000P/UN
R9423
4700/J6
IC9404
SN74LS221NSR
IC9404
SN74LS221NSR
CX
RX
A
B
R
Q
QN
9403
V
16
8
GND
5V
192
‹IC9035-5›
‹IC9035-4›
IC9412
MC14040BF-R
IC9412
MC14040BF-R
CP
MR
O11 O10 O9 O8 O7 O6 O5 O4 O3 O2 O1 O0
‹IC9035-2›
‹IC9035-1›
‹IC9035-3›
128
64
GND
C9438
1000P/UN
R9458
47K/J6
IC9413
MC14538BF-R
IC9411
MC14013BF-R
D
CP
SD
CD
IC9413
MC14538BF-R
C9439
0.1/UBN
R9459
220K/J6
IC9417
MC14013BF-R
(6)
REC_PALP
R9460
120K/J6
C9440
1500P/UBN
IC9419
TC4S30FTE85R
D9401
MA151K-TW
C9445
0.01/UFN
C9446
0.01/UFN
IC9411
MC14013BF-R
IC9413
MC14538BF-R
IC9417
MC14013BF-R

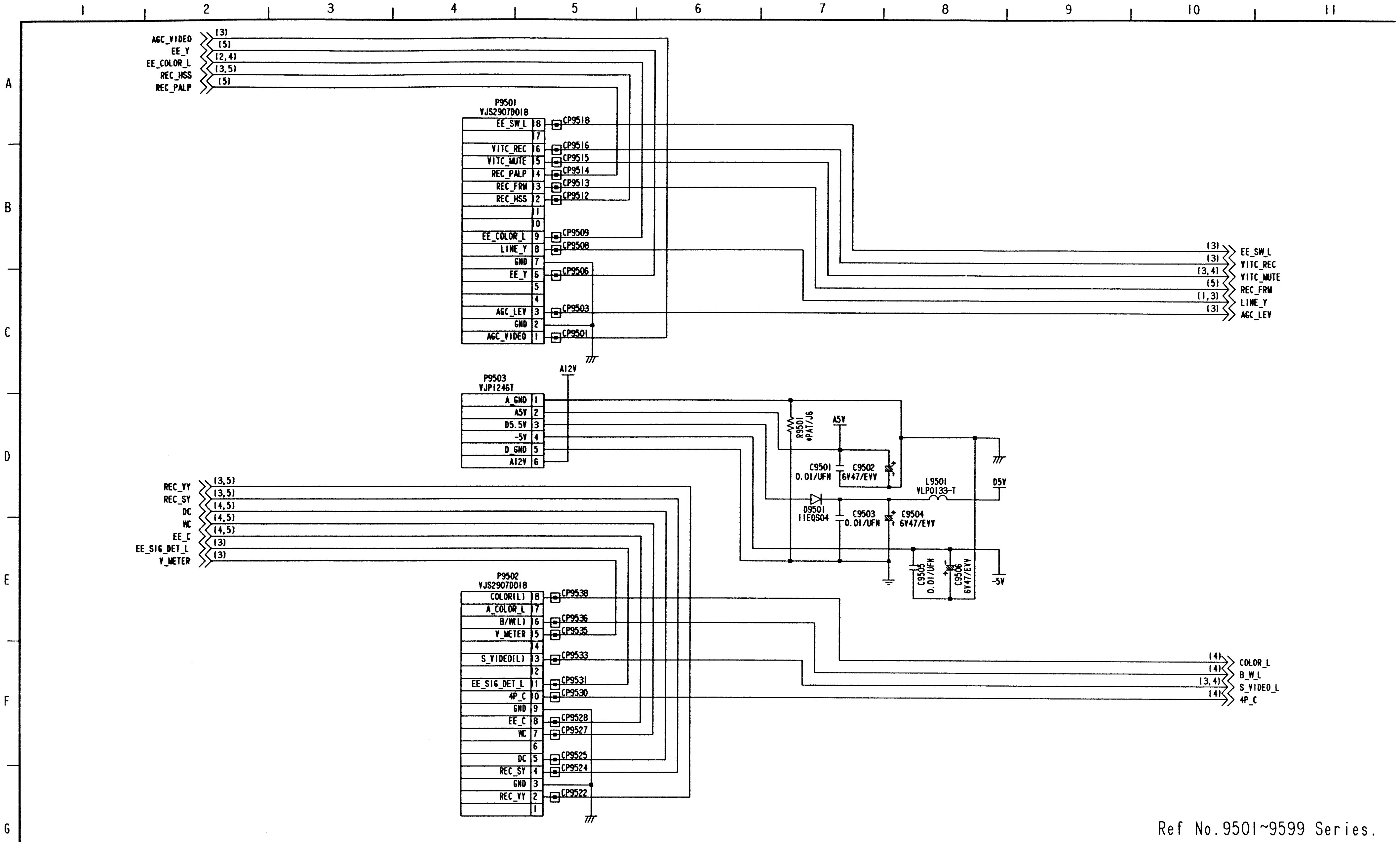
*=REFER TO THE COMPARISON CHART

Ref No.9401~9499 Series.

YC REC-5 DC VOLTAGE CHART

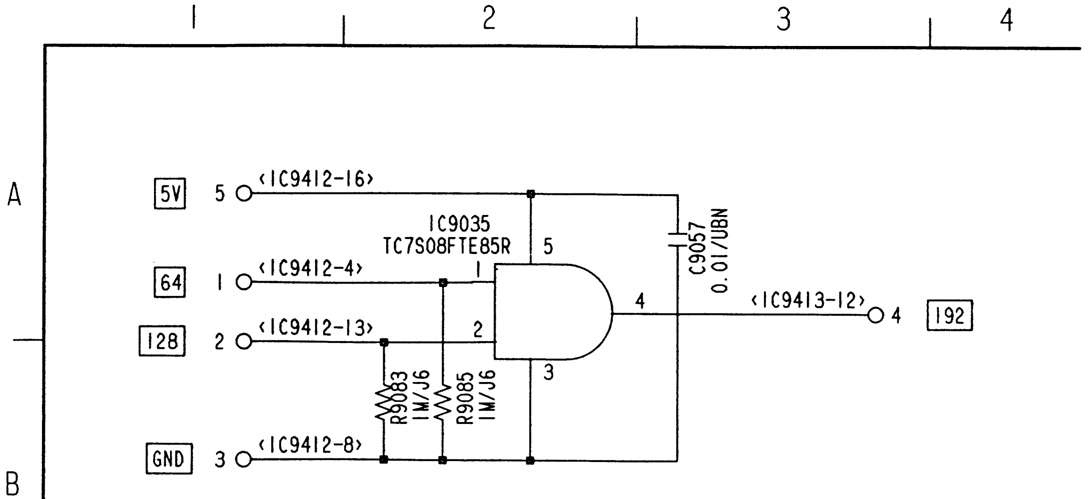
REF. NO.	IC9401										IC9403									
MODE	1	2	3	4	5	6	7				1	2	3	4	5	6	7	8		
STOP	3.7	4.2	4.2	0	3.8	11.4	7.7				0	0	0	0	4.4	0	0	4.8		
REC	3.7	4.2	4.2	0	3.8	11.4	7.7				0	0	0	0	4.4	0	0	4.8		
REF. NO.	IC9404																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	4.5	4.8	4.4	0.3	4.5	0.8	0	4.6	4.8	4.8	4.5	0.3	4.6	0.9	4.8				
REC	0	4.5	4.8	4.4	0.3	4.5	0.8	0	4.6	4.8	4.8	4.5	0.3	4.6	0.9	4.8				
REF. NO.	IC9405										IC9406									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5					
STOP	0	0	0	−4.9	0	0	0	4.8			0	−4.9	−1.8	−4.8	4.8					
REC	0	0	0	−4.9	0	0	0	4.8			0	−4.9	−1.8	−4.8	4.8					
REF. NO.	IC9409																			
MODE	1	2	3	4	5															
STOP	0	4.6	0	0.4	4.8															
REC	0	4.6	0	0.4	4.8															
REF. NO.	IC9410																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	3.4	2.4	0	0.3	1.8	3.0	0	3.8	1.1	0.4	0	4.8	3.8	0	4.8				
REC	0	3.4	2.4	0	0.3	1.8	3.0	0	3.8	1.1	0.4	0	4.8	3.7	0	4.8				
REF. NO.	IC9411																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	0	4.8	0.1	0	0	0	0	0	2.6	0	3.8	2.4	2.4	4.8						
REC	0	4.8	0.1	0	0	0	0	0	2.5	0	3.8	2.4	2.4	4.8						
REF. NO.	IC9412																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	1.2	1.2	1.0	1.2	1.2	1.2	0	1.2	1.8	2.4	0.4	1.0	0	0	4.8				
REC	0	1.2	1.2	1.0	1.2	1.2	1.2	0	1.2	1.8	2.4	0.4	1.0	0	0	4.8				
REF. NO.	IC9413																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	4.7	4.8	0	4.8	0	4.8	0	4.8	0	4.8	1.0	4.8	4.8	0	4.8				
REC	0	4.7	4.8	0	4.8	0	4.8	0	4.8	0	4.8	1.0	4.8	4.8	0	4.8				
REF. NO.	IC9417																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	2.4	2.4	0	0	3.6	0	0	0	0	0	0	4.8	0	4.8						
REC	2.4	2.4	0	0	3.6	0	0	0	0	0	0	4.8	0	4.8						
REF. NO.	IC9419																			
MODE	1	2	3	4	5															
STOP	0	2.5	0	0	4.8															
REC	0	2.5	0	0	4.8															
REF. NO.	Q9401																			
MODE	E	C	B																	
STOP	−0.7	0.7	0																	
REC	−0.7	0.7	0																	

YC REC-6 SCHEMATIC DIAGRAM 6/6 (E13: AG-7700 0NLY/Page CBA-6)


AGC_VIDEO
EE_Y
EE_COLOR_L
REC_HSS
REC_PALP
P9501
VJS2907D018
EE_SW_L
VITC_REC
VITC_MUTE
REC_PALP
REC_FRW
REC_HSS
EE_COLOR_L
LINE_Y
GND
EE_Y
AGC_LEV
GND
AGC_VIDEO
EE_SW_L
VITC_REC
VITC_MUTE
REC_FRW
LINE_Y
AGC_LEV
P9503
VJP1246T
A_GND
A5V
D5.5V
-5V
D_GND
A12V
A12V
R9501
4PA1/J6
A5V
C9501
0.01/UFN
C9502
6V47/EVV
D9501
11EQS04
C9503
0.01/UFN
C9504
6V47/EVV
L9501
VLP0133-T
D5V
C9505
0.01/UFN
C9506
6V47/EVV
-5V
REC_YY
REC_SY
DC
WC
EE_C
EE_SIG_DET_L
V_METER
P9502
VJS2907D018
COLOR(L)
A_COLOR_L
B/W(L)
V_METER
S_VIDEO(L)
EE_SIG_DET_L
4P_C
GND
EE_C
WC
DC
REC_SY
GND
REC_YY
COLOR_L
B_W_L
S_VIDEO_L
4P_C

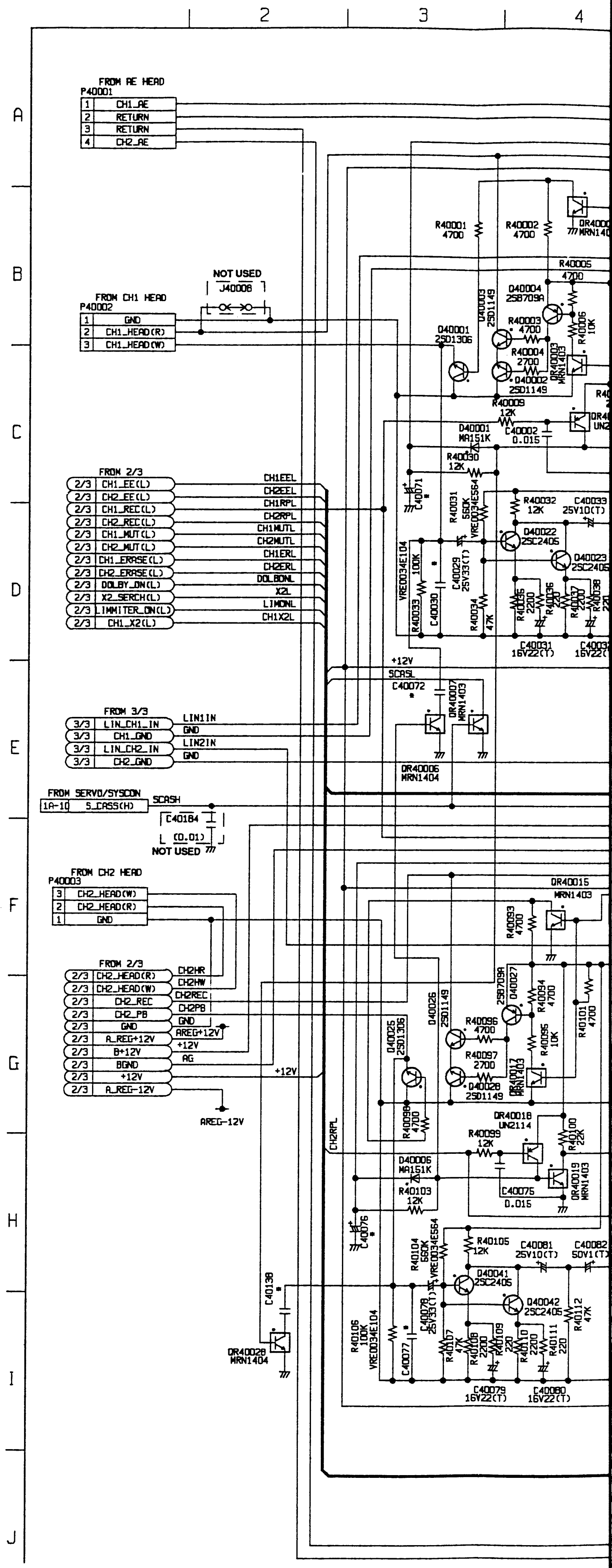
Ref No.9501~9599 Series.

CF SUB SCHEMATIC DIAGRAM (E102: AG-7700 0NLY/Page CBA-0)

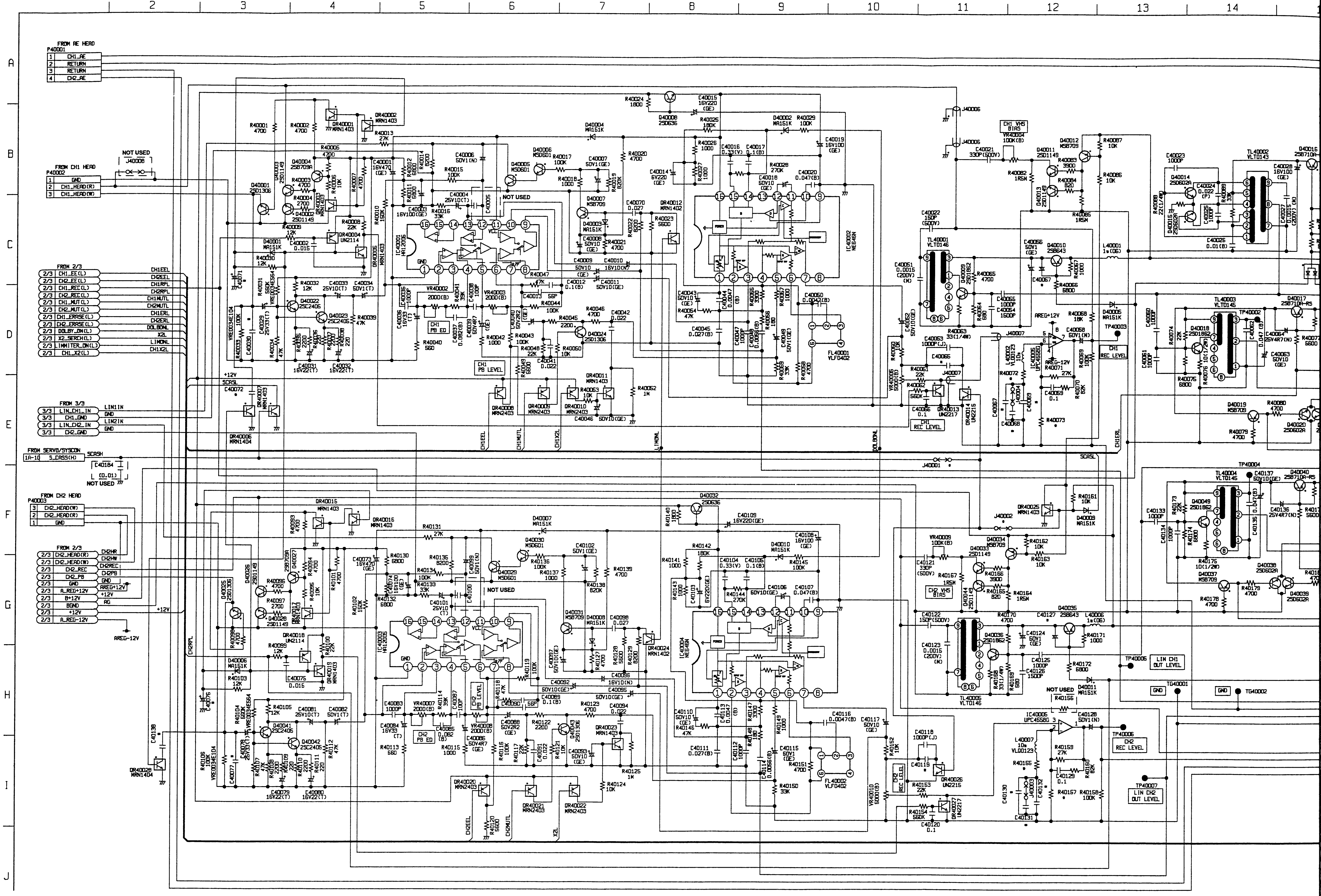

5V
5
<IC9412-16>
64
1
<IC9412-4>
128
2
<IC9412-13>
GND
3
<IC9412-8>
IC9035
TC7S08FTE85R
C9057
0.01/UBN
<IC9413-12>
4
192
R9083
1M/J6
R9085
1M/J6

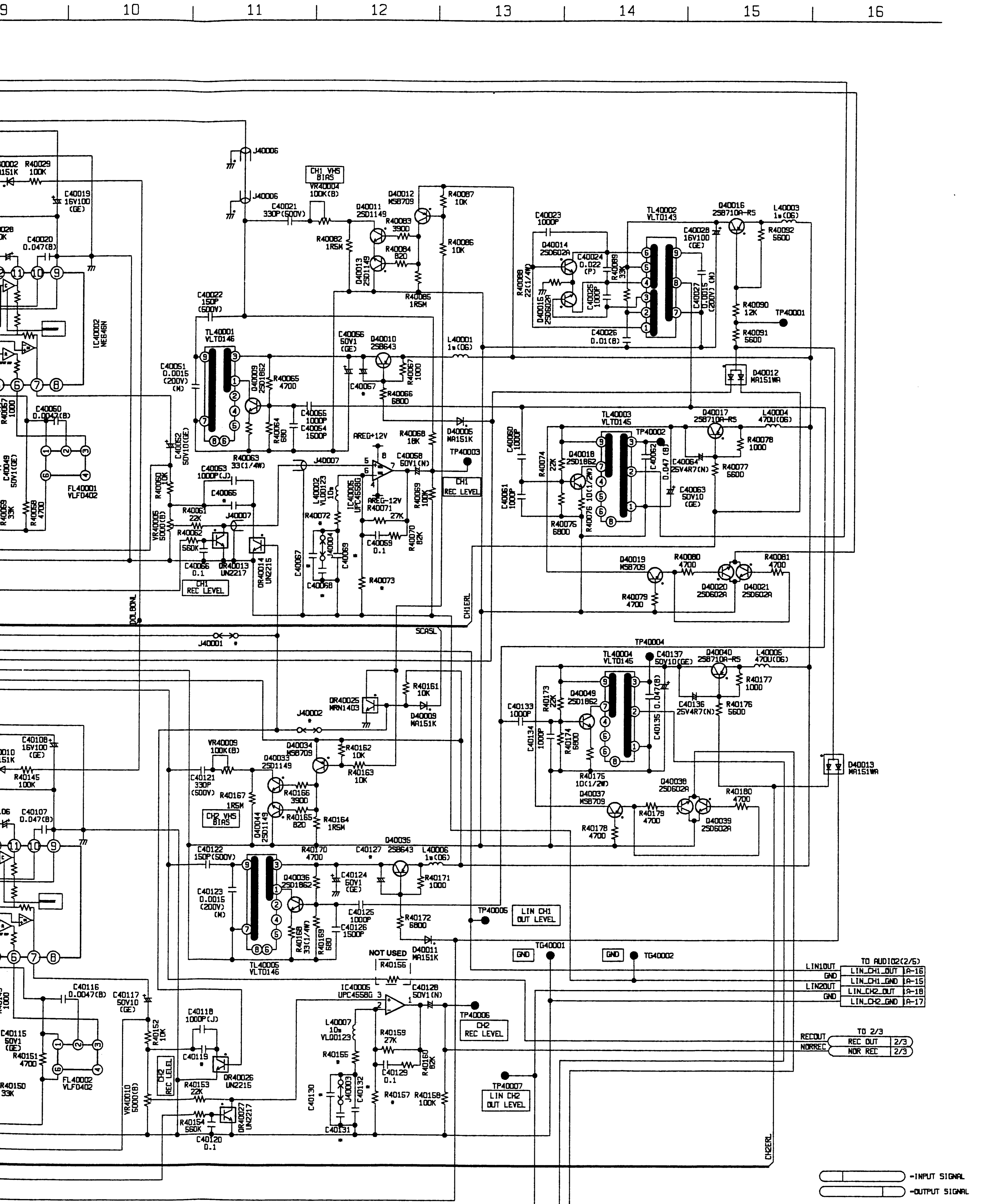
Ref No.9000 Series.

AUDIO (1) LINER (AG-7700) SCHEMAT


FROM AE HEAD
P40001
CH1_AE
RETURN
RETURN
CH2_AE
FROM CH1 HEAD
P40002
GND
CH1_HEAD(R)
CH1_HEAD(W)
NOT USED
J40006
FROM 2/3
FROM 3/3
FROM SERVO/SYSCON
S_CRASS(H)
C40184
NOT USED
FROM CH2 HEAD
P40003
CH2_HEAD(W)
CH2_HEAD(R)
GND
FROM 2/3
AREG-12V
DR40028
MRN1404

AUDIO (1) LINER (AG-7700) SCHEMATIC DIAGRAM 1/3 (E7: Page CBA-9)


FROM RE HEAD
P40001
CH1_RE
RETURN
RETURN
CH2_RE
NOT USED
J40008
FROM CH1 HEAD
P40002
GND
CH1_HEAD(R)
CH1_HEAD(W)
FROM 2/3
CH1_EE(L)
CH2_EE(L)
CH1_REC(L)
CH2_REC(L)
CH1_MUT(L)
CH2_MUT(L)
CH1_ERASE(L)
CH2_ERASE(L)
DOLBY_ON(L)
X2_SERCH(L)
LIMMITER_ON(L)
CH1_X2(L)
FROM 3/3
LIN_CH1_IN
CH1_GND
LIN_CH2_IN
CH2_GND
FROM SERVO/SYSCON
S_CASS(H)
NOT USED
FROM CH2 HEAD
P40003
CH2_HEAD(W)
CH2_HEAD(R)
GND
CH2_REC
CH2_PB
A_REG+12V
B+12V
BGND
+12V
A_REG-12V
AREG-12V
IC40001
MA12035
IC40003
MA12035
IC40002
NE646N
IC40004
NE646N
IC40005
UPC4558G
FL40001
VLFD402
FL40002
VLFD402
TL40001
VLT0146
TL40002
VLT0143
TL40003
VLT0145
TL40004
VLT0145
TL40005
VLT0146
CH1 PB LEVEL
CH2 PB LEVEL
CH1 REC LEVEL
CH2 REC LEVEL
CH1 VHS BIAS
CH2 VHS BIAS
CH1 PB ED
CH2 PB ED
LIN CH1 OUT LEVEL
LIN CH2 OUT LEVEL
TP40003
TP40004
TP40005
TP40006
TP40007
TG40001
TG40002
GND
J40001
J40002
J40005
J40006
J40007
AREG+12V
SCASL
NOT USED
1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
J


9
10
11
12
13
14
15
16
J40006
CH1 VHS BIAS
VR40004 100K(B)
C40021 330P(500V)
R40082 1R5M
Q40011 2SD1149
Q40012 NSB709
R40083 3900
R40084 820
R40087 10K
R40086 10K
Q40013 2SD1149
R40085 1R5M
C40022 150P (500V)
TL40001 VLT0146
Q40009 2SD1862
R40065 4700
C40056 50V1 (GE)
Q40010 2SB643
C40057
R40066 6800
R40067 1000
C40051 0.0015 (200V) (M)
C40052 50V10(GE)
C40053 1000P(J)
R40063 33(1/4W)
C40055 1000P
C40054 1500P
R40064 680
C40065
R40061 22K
R40062 560K
C40066 0.1
QR40013 UN2217
QR40014 UN2215
CH1 REC LEVEL
VR40005 5000(B)
J40007
AREG+12V
R40068 18K
C40058 50V1(N)
IC40003 UPC4558G
AREG-12V
R40071 27K
C40059 0.1
R40070 82K
R40069 100K
L40002 10u VL00123
R40072
C40067
C40068
C40069
R40073
L40001 1u(06)
D40005 MA151K
TP40003
CH1 REC LEVEL
CH1ERL
C40023 1000P
Q40014 2SD602A
Q40015 2SD602A
C40024 0.022 (P)
C40025 1000P
R40088 22(1/4W)
R40089 33K
C40026 0.01(B)
TL40002 VLT0143
C40028 16V100 (GE)
C40027 0.0015 (200V) (M)
Q40016 2SB710A-RS
L40003 1u(06)
R40092 5600
R40090 12K
TP40001
R40091 5600
D40012 MA151WA
TL40003 VLT0145
TP40002
Q40017 2SB710A-RS
L40004 470U(06)
R40078 1000
C40060 1000P
C40061 1000P
R40074 22K
Q40018 2SD1862
R40076 10(1/2W)
R40075 6800
C40064 25V4R7(N)
R40077 5600
C40062 0.047(B)
C40063 50V10 (GE)
Q40019 NSB709
R40080 4700
R40081 4700
R40079 4700
Q40020 2SD602A
Q40021 2SD602A
IC40002 NE646N
C40019 16V100 (GE)
C40020 0.047(B)
R40029 100K
FL40001 VLF0402
C40060 0.0042(B)
C40049 50V1(GE)
R40057 1000
DOLBONL
J40001
J40002
SCASL
DR40025 MRN1403
R40161 10K
D40009 MA151K
TP40004
TL40004 VLT0145
C40137 50V10(GE)
Q40040 2SB710A-RS
L40006 470U(06)
R40177 1000
C40133 1000P
C40134 1000P
R40173 22K
Q40049 2SD1862
R40174 6800
C40135 0.047(B)
C40136 25V4R7(N)
R40176 5600
R40175 10(1/2W)
Q40037 NSB709
Q40038 2SD602A
Q40039 2SD602A
R40178 4700
R40179 4700
R40180 4700
D40013 MA151WA
VR40009 100K(B)
Q40033 2SD1149
Q40034 NSB709
R40162 10K
R40163 10K
C40121 330P (500V)
R40167 1R5M
R40166 3900
R40165 820
R40164 1R5M
CH2 VHS BIAS
Q40044 2SD1149
C40122 150P(500V)
R40170 4700
C40127 2SB643
Q40035
L40006 1u(06)
R40171 1000
Q40036 2SD1862
C40124 50V1 (GE)
C40123 0.0015 (200V) (M)
C40125 1000P
C40126 1500P
R40168 33(1/4W)
R40169 680
R40172 6800
TL40005 VLT0146
TP40006
LIN CH1 OUT LEVEL
NOT USED
R40156
D40011 MA151K
TG40001
GND
TG40002
C40108 16V100 (GE)
R40145 100K
C40107 0.047(B)
C40116 0.0047(B)
C40117 50V10 (GE)
C40115 50V1 (GE)
R40151 4700
R40150 33K
FL40002 VLF0402
VR40010 5000(B)
R40152 10K
CH2 REC LEVEL
C40118 1000P(J)
C40119
R40153 22K
QR40026 UN2215
QR40027 UN2217
R40154 560K
C40120 0.1
IC40005 UPC4558G
C40128 50V1(N)
TP40006
CH2 REC LEVEL
L40007 10u VL00123
R40159 27K
R40155
C40129 0.1
R40160 82K
C40130
C40132
C40131
R40157
R40158 100K
TP40007
LIN CH2 OUT LEVEL
CH2ERL
LIN1OUT
GND
LIN2OUT
GND
TO AUDIO2(2/5)
LIN_CH1_OUT A-16
LIN_CH1_GND A-15
LIN_CH2_OUT A-18
LIN_CH2_GND A-17
RECOUT
NORREC
TO 2/3
REC OUT 2/3
NOR REC 2/3
=INPUT SIGNAL
=OUTPUT SIGNAL

*=REFER TO THE COMPARISON CHART

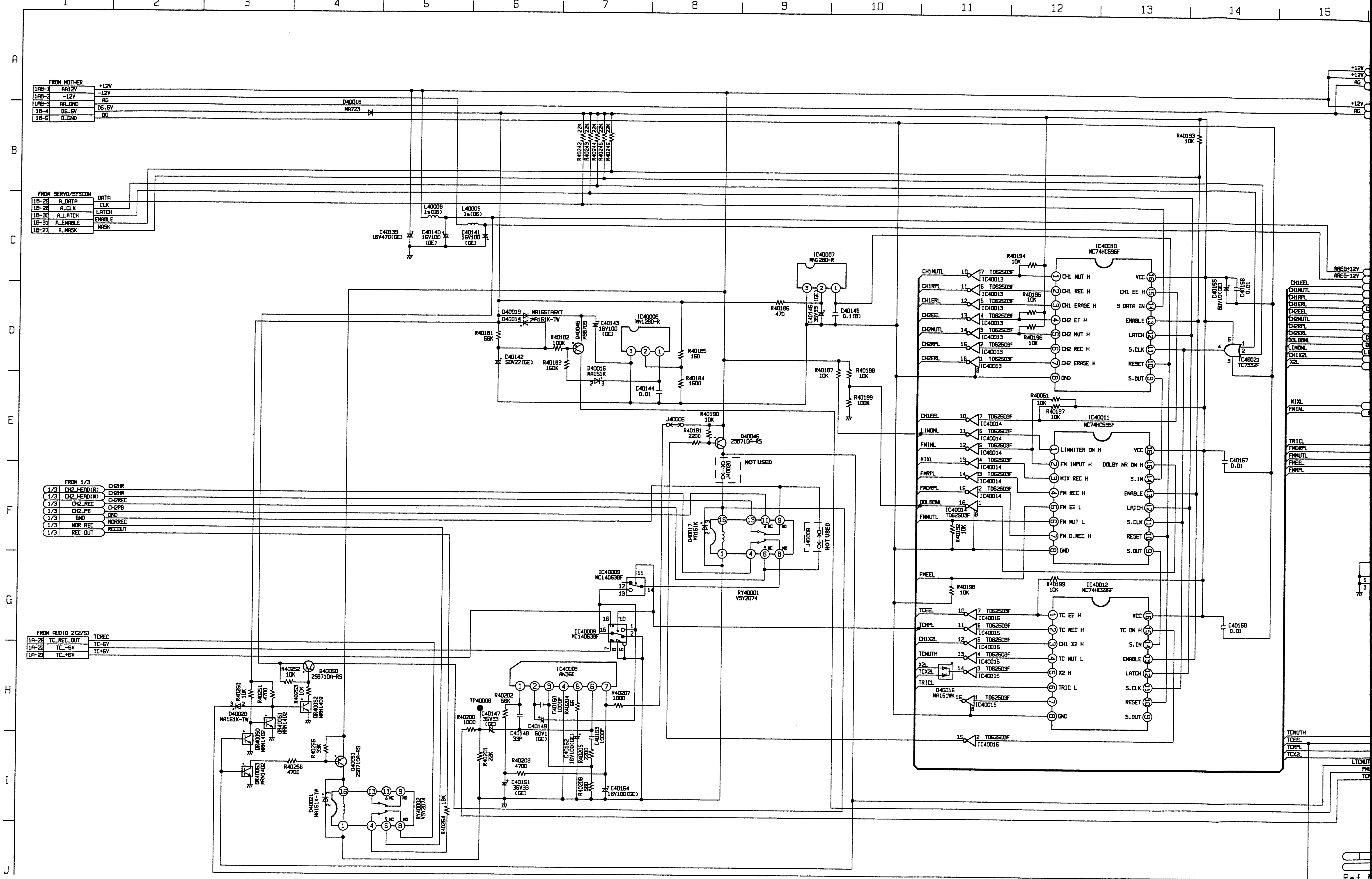
Ref NO.40000 Series.

	AG-7700
C40030	1800P
C40077	1800P
C40069	0.015(B)
C40132	0.015(B)
R40072	82
R40155	82
R40073	1800
R40157	1800
C40065	2200P(B)
C40119	2200P(B)
C40068	1500P
C40131	1500P
C40071	50V2R2(GE)
C40076	50V2R2(GE)
J40001	0
J40002	———
C40067	ECKF1H222KB
C40130	ECKF1H222KB
C40057	50V2R2(N)
C40127	50V2R2(N)
C40072	2200P(B)
C40138	2200P(B)

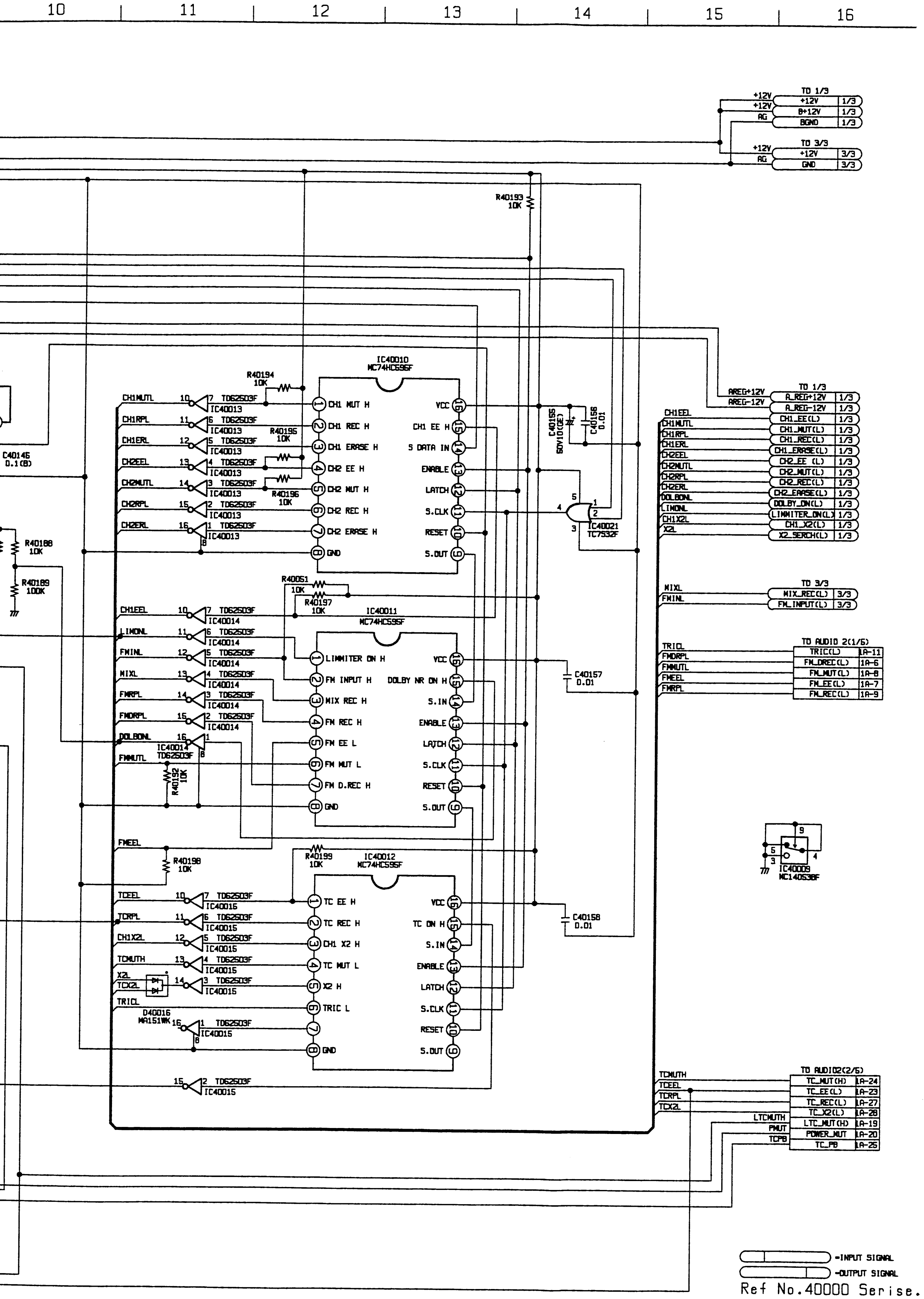
AUDIO (1) LINER DC VOLTAGE CHART

REF. NO.	IC40001																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	4.8	4.9	4.9	4.9	4.9	10.3	4.9	4.9	4.9	9.8	4.8	4.9	−0.1	−0.2	8.9		
REC	0	4.8	4.9	4.9	4.9	4.9	10.3	4.9	4.9	4.9	9.8	4.8	4.9	0	0	8.9		
REF. NO.	IC40002																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	5.3	5.3	5.4	5.3	5.3	5.3	5.1	0	0	5.3	5.4	5.3	0	8.1	7.9	10.6		
REC	5.3	5.3	5.4	5.3	5.2	5.3	5.1	0	0	5.3	5.4	5.3	0	8.1	7.9	10.6		
REF. NO.	IC40003																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	4.8	4.9	4.9	4.9	4.9	10.3	4.9	4.9	4.9	9.8	4.9	4.9	−0.1	−0.1	8.9		
REC	0	4.8	4.9	4.9	4.9	4.9	10.3	4.9	4.9	4.9	9.8	4.9	4.9	0	0	8.9		
REF. NO.	IC40004																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	5.3	5.3	5.4	5.3	5.3	5.3	5.1	0	0	5.3	5.4	5.3	0	8.1	7.9	0		
REC	5.3	5.3	5.4	5.3	5.2	5.3	5.1	0	0	5.3	5.4	5.3	0	8.1	7.9	10.6		
REF. NO.	IC40005																	
MODE	1	2	3	4	5	6	7	8										
STOP	0.1	0	0	−12.1	0	0	0.1	11.5										
REC	0	0	0	−12.1	0	0	0	11.5										
REF. NO.	Q40001			Q40002			Q40003			Q40004			Q40005			Q40006		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	0	0	0	0.7	0	0	0.7	9.9	9.9	9.2	0	0	0	0	0.1	0
REC	0	0	0.7	−8.4	0	−25.6	−8.3	0	−26.2	9.9	−25.6	9.9	0	0	0	0	0.3	0
REF. NO.	Q40007			Q40008			Q40009			Q40010			Q40011			Q40012		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.3	0	4.7	10.6	11.6	11.3	0	0	0	11.6	0	11.6	0.2	0	0	11.6	0	11.6
REC	5.3	0	4.7	10.6	11.5	11.3	0.8	10.9	1.3	11.1	11.0	10.4	−4.1	1.2	−5.7	11.5	−6.1	11.5
REF. NO.	Q40013			Q40014			Q40015			Q40016			Q40017			Q40018		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0.2	0	0	0	0.3	0.3	0	0.3	0.3	11.6	0.3	11.6	11.6	0	11.6	0	0	0
REC	−4.1	0	−5.7	0.3	11.2	0.1	0.3	11.2	0.1	11.3	11.2	10.6	11.0	10.8	10.3	0.6	10.7	1.0
REF. NO.	Q40019			Q40020			Q40021			Q40022			Q40023			Q40024		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	−0.2	0	0	0	0	−0.1	0	0	0	0.2	7.8	0.7	0.2	7.8	0.7	0	0	0
REC	10.8	10.8	10.1	0	0	0.4	0	0	0.4	0.2	7.7	0.7	0.2	7.7	0.7	0	0	−0.1
REF. NO.	Q40025			Q40026			Q40027			Q40028			Q40029			Q40030		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	0	0	0	0.7	9.8	9.8	9.1	0	0	0.7	0	0	0	0	0	0
REC	0	0	0.7	−8.9	−0.7	−26.4	9.8	−22.5	9.8	−8.9	0	−25.8	0	0	0	0	0	0
REF. NO.	Q40031			Q40032			Q40033			Q40034			Q40035			Q40036		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.3	0	4.7	10.6	11.6	11.3	0	0	0	11.6	0	11.6	11.6	0	11.6	0	0	0
REC	5.3	0	4.6	10.6	11.6	11.3	−4.3	2.1	−5.9	11.5	−5.8	11.5	11.1	11.0	10.4	0.8	10.9	1.3
REF. NO.	Q40037			Q40038			Q40039			Q40040			Q40041			Q40042		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	−0.1	0	0	0	0	−0.1	0	0	−0.1	11.6	0	11.6	0.2	7.7	0.7	0.2	7.7	0.7
REC	10.8	10.8	10.1	0	0	0.3	0	0	0.3	11.0	10.8	10.2	0.2	7.7	0.7	0.2	7.7	0.7
REF. NO.	Q40043			Q40044			Q40049											
MODE	E	C	B	E	C	B	E	C	B									
STOP	0	0	−0.1	0.3	0	0	0	0	0									
REC	0	0	−0.1	−4.3	0	−5.8	0.7	10.7	1.0									
REF. NO.	QR40001			QR40002			QR40003			QR40004			QR40005			QR40006		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	6.9	0	6.9	0	0	0	6.9	9.8	0	10.9	0	9.5	0	0	0	0
REC	0	5.3	0	0	0	9.2	0	9.8	0	9.8	9.8	4.7	0	0	9.8	0	0	9.8
REF. NO.	QR40007			QR40008			QR40009			QR40010			QR40011			QR40012		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	2.9	11.6	11.6	0	11.6	−0.1	11.6	11.6	0	11.6	0	0	0	0	0	0
REC	0	0	2.9	11.5	11.5	0	11.5	0	11.5	11.5	0	11.5	0	0	0	0	0	0
REF. NO.	QR40013			QR40014			QR40015			QR40016			QR40017			QR40018		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	0.9	0	0	0.7	0	0	6.9	0	6.9	0	0	0	6.9	9.8	0	10.9
REC	0	0	0.3	0	0	0.6	0	5.2	0	0	0	9.2	0	9.8	0	9.8	9.8	4.9
REF. NO.	QR40019			QR40020			QR40021			QR40022			QR40023			QR40024		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	9.5	0	11.6	11.6	0	11.6	0	11.5	11.6	0	11.5	0	0	0	0	0	0
REC	0	0	9.8	11.5	11.5	0	11.5	0	11.5	11.5	0	11.5	0	0	0	0	0	0
REF. NO.	QR40025			QR40026			QR40027			QR40028								
MODE	E	C	B	E	C	B	E	C	B	E	C	B						
STOP	0	11.6	0.7	0	0	2.9	0	0	0.9	0	0	0						
REC	0	11.5	0.7	0	0	2.9	0	0	0	0	0	9.8						

AUDIO (1) CONTROL (AG-7700) SCHEMATIC DIAGRAM 2/3 (E7: Page CBA-9)

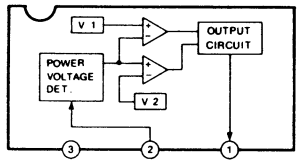


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
H
I
J
FROM MOTHER
1AB-1 AA12V +12V
1AB-2 -12V -12V
1AB-3 AA_GND AG
1AB-4 D5.5V D5.5V
1B-5 D_GND DG
D40018 MA723
FROM SERVO/SYSCON
1B-29 A_DATA DATA
1B-28 A_CLK CLK
1B-30 A_LATCH LATCH
1B-31 A_ENABLE ENABLE
1B-27 A_MASK MASK
L40008 1u(06)
L40009 1u(06)
C40139 16V470(GE)
C40140 16V100 (GE)
C40141 16V100 (GE)
R40242 R40243 R40244 R40245 R40246 22K
IC40007 MN1280-R
R40186 470
C40145 35V33 (GE)
C40146 0.1(B)
D40019 MA165TA5VT
D40014 MA151K-TW
R40181 56K
R40182 100K
D40045 KSB709
C40143 16V100 (GE)
IC40006 MN1280-R
R40185 150
C40142 50V22(GE)
R40183 150K
D40016 MA151K
R40184 1500
C40144 0.01
R40187 10K
R40188 10K
R40189 100K
R40190 10K
J40005
R40191 2200
D40046 2SB710A-RS
NOT USED
J40020
FROM 1/3
1/3 CH2_HEAD(R) CH2HR
1/3 CH2_HEAD(W) CH2HW
1/3 CH2_REC CH2REC
1/3 CH2_PB CH2PB
1/3 GND GND
1/3 NOR REC NORREC
1/3 REC OUT RECOUT
D40017 MA151K
J40009
NOT USED
RY40001 VSY2074
IC40009 MC14053BF
FROM AUDIO 2(2/5)
1A-26 TC_REC_OUT TCREC
1A-22 TC_-6V TC-6V
1A-21 TC_+6V TC+6V
R40252 10K
D40050 2SB710A-RS
R40250 10K
R40251 4700
R40253 10K
D40020 MA151K-TW
DR40050 MRN1402
DR40051 MRN1402
DR40052 MRN1402
DR40053 MRN1402
R40255 33K
R40256 4700
D40051 2SB710A-RS
D40021 MA151K-TW
RY40002 VSY2074
R40254 18K
IC40008 AN360
TP40008
R40202 56K
R40200 1000
C40147 35V33 (GE)
R40201 22K
C40148 33P
C40149 50V1 (GE)
C40150 100P
R40204 56
R40207 1000
C40152 16V100(GE)
R40205 2200
C40153 1000P
R40203 4700
C40151 35V33 (GE)
R40206 560
C40154 16V100(GE)
R40194 10K
IC40010 MC74HC595F
CH1MUTL
CH1RPL
CH1ERL
CH2EEL
CH2MUTL
CH2RPL
CH2ERL
TD62503F IC40013
R40195 10K
R40196 10K
CH1 MUT H
CH1 REC H
CH1 ERASE H
CH2 EE H
CH2 MUT H
CH2 REC H
CH2 ERASE H
GND
VCC
CH1 EE H
5 DATA IN
ENABLE
LATCH
S.CLK
RESET
S.OUT
C40155 50V10(GE)
C40156 0.01
IC40021 TC7S32F
R40193 10K
R40051 10K
R40197 10K
IC40011 MC74HC595F
CH1EEL
LIMONL
FMINL
MIXL
FMRPL
FMDRPL
DOLBONL
FMMUTL
TD62503F IC40014
R40192 10K
LIMMITER ON H
FM INPUT H
MIX REC H
FM REC H
FM EE L
FM MUT L
FM D.REC H
DOLBY NR ON H
S.IN
C40157 0.01
FMEEL
R40198 10K
R40199 10K
IC40012 MC74HC595F
TCEEL
TCRPL
CH1X2L
TCMUTH
X2L
TCX2L
TRICL
D40016 MA151WK
TD62503F IC40015
TC EE H
TC REC H
CH1 X2 H
TC MUT L
X2 H
TRIC L
TC ON H
C40158 0.01
+12V
AG
AREG+12V
AREG-12V
CH1EEL
CH1MUTL
CH1RPL
CH1ERL
CH2EEL
CH2MUTL
CH2RPL
CH2ERL
DOLBONL
LIMONL
CH1X2L
X2L
MIXL
FMINL
TRICL
FMDRPL
FMMUTL
FMEEL
FMRPL
TCMUTH
TCEEL
TCRPL
TCX2L
LTCMUT
Ref

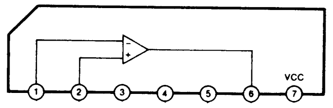

10
11
12
13
14
15
16
+12V
+12V
AG
TO 1/3
+12V 1/3
B+12V 1/3
BGND 1/3
TO 3/3
+12V 3/3
GND 3/3
R40193 10K
C40145 0.1(B)
R40188 10K
R40189 100K
IC40010 MC74HC595F
R40194 10K
R40195 10K
R40196 10K
CH1MUTL
CH1RPL
CH1ERL
CH2EEL
CH2MUTL
CH2RPL
CH2ERL
TD62503F IC40013
CH1 MUT H
CH1 REC H
CH1 ERASE H
CH2 EE H
CH2 MUT H
CH2 REC H
CH2 ERASE H
GND
VCC
CH1 EE H
S DATA IN
ENABLE
LATCH
S.CLK
RESET
S.OUT
C40155 50V10(GE)
C40156 0.01
IC40021 TC7S32F
AREG+12V
AREG-12V
TO 1/3
A_REG+12V 1/3
A_REG-12V 1/3
CH1EEL
CH1MUTL
CH1RPL
CH1ERL
CH2EEL
CH2MUTL
CH2RPL
CH2ERL
DOLBONL
LIMONL
CH1X2L
X2L
CH1_EE(L) 1/3
CH1_MUT(L) 1/3
CH1_REC(L) 1/3
CH1_ERASE(L) 1/3
CH2_EE (L) 1/3
CH2_MUT(L) 1/3
CH2_REC(L) 1/3
CH2_ERASE(L) 1/3
DOLBY_ON(L) 1/3
LIMMITER_ON(L) 1/3
CH1_X2(L) 1/3
X2_SERCH(L) 1/3
R40051 10K
R40197 10K
IC40011 MC74HC595F
CH1EEL
LIMONL
FMINL
MIXL
FMRPL
FMDRPL
DOLBONL
FMMUTL
TD62503F IC40014
R40192 10K
LIMMITER ON H
FM INPUT H
MIX REC H
FM REC H
FM EE L
FM MUT L
FM D.REC H
GND
VCC
DOLBY NR ON H
S.IN
ENABLE
LATCH
S.CLK
RESET
S.OUT
C40157 0.01
MIXL
FMINL
TO 3/3
MIX_REC(L) 3/3
FM_INPUT(L) 3/3
TRICL
FMDRPL
FMMUTL
FMEEL
FMRPL
TO AUDIO 2(1/5)
TRIC(L) 1A-11
FM_DREC(L) 1A-6
FM_MUT(L) 1A-8
FM_EE(L) 1A-7
FM_REC(L) 1A-9
IC40009 MC14053BF
FMEEL
R40198 10K
R40199 10K
IC40012 MC74HC595F
TCEEL
TCRPL
CH1X2L
TCMUTH
X2L
TCX2L
TRICL
D40016 MA151WK
TD62503F IC40015
TC EE H
TC REC H
CH1 X2 H
TC MUT L
X2 H
TRIC L
GND
VCC
TC ON H
S.IN
ENABLE
LATCH
S.CLK
RESET
S.OUT
C40158 0.01
TCMUTH
TCEEL
TCRPL
TCX2L
LTCMUTH
PMUT
TCPB
TO AUDIO2(2/5)
TC_MUT(H) 1A-24
TC_EE(L) 1A-23
TC_REC(L) 1A-27
TC_X2(L) 1A-28
LTC_MUT(H) 1A-19
POWER_MUT 1A-20
TC_PB 1A-25
=INPUT SIGNAL
=OUTPUT SIGNAL

Ref No.40000 Serise.

IC40006,40007
MN1280-R


V 1
V 2
POWER VOLTAGE DET.
OUTPUT CIRCUIT
3
2
1

IC40008
AN360


1
2
3
4
5
6
VCC
7

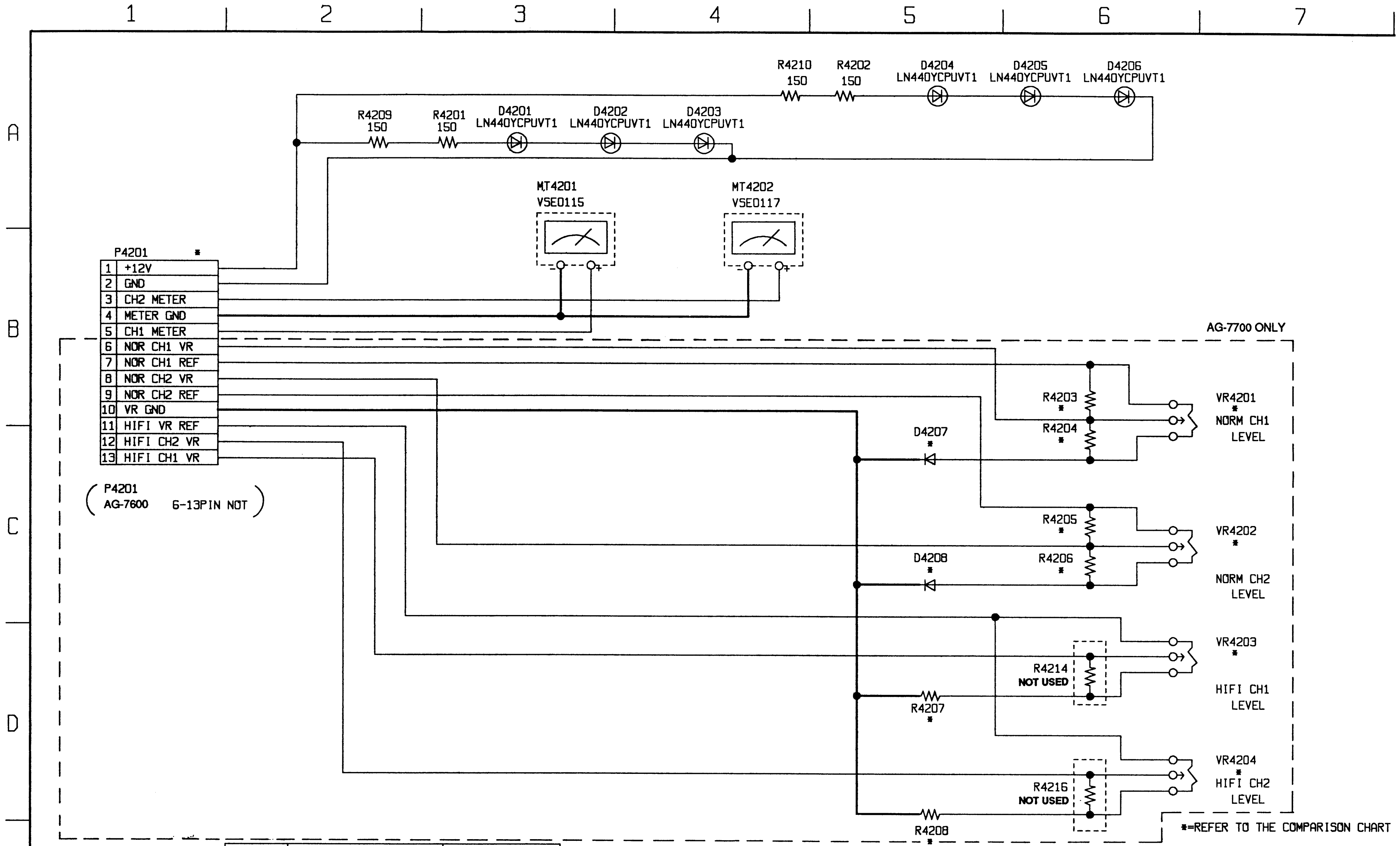
AUDIO (1) CONTROL DC VOLTAGE CHART

REF. NO.	IC40006					IC40007				
MODE	1	2	3			1	2	3		
STOP	4.7	4.7	0			5.1	5.1	0		
REC	4.7	4.7	0			5.1	5.1	0		
REF. NO.	IC40008									
MODE	1	2	3	4	5	6	7			
STOP	2.5	0.6	0.1	0	1.1	4.8	10.0			
REC	2.5	0.7	0.1	0	1.1	4.8	9.8			
REF. NO.	IC40009									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0.5	0	0	0	0	0	−6.2	0	0	5.5
REC	0	0	0	0	0	0	−6.2	0	0	0.1
REF. NO.	IC40009									
MODE	11	12	13	14	15	16				
STOP	5.5	0	0.1	0	0	6.0				
REC	0.1	0	0	0	0	5.9				
REF. NO.	IC40010									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	5.1	0	0	0	0	0	5.2
REC	0	5.1	5.1	5.1	0	5.1	5.1	0	5.1	5.1
REF. NO.	IC40010									
MODE	11	12	13	14	15	16				
STOP	5.1	4.2	0	0.5	5.1	5.2				
REC	5.0	4.3	0	0.4	5.1	5.1				
REF. NO.	IC40011									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	5.1	0	0	0	0	5.2	0	0	0	5.2
REC	5.1	0	0	5.1	0	5.1	5.1	0	5.1	5.1
REF. NO.	IC40011									
MODE	11	12	13	14	15	16				
STOP	5.1	4.2	0	0	0	5.2				
REC	5.0	4.3	0	5.1	0	5.1				
REF. NO.	IC40012									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	5.1	0	0	0	0	5.2	0	0	0.1	5.2
REC	5.1	5.1	0	0	0	5.1	0	0	0.1	5.1
REF. NO.	IC40012									
MODE	11	12	13	14	15	16				
STOP	5.1	4.3	0	0	0	5.2				
REC	5.0	4.3	0	5.1	0	5.1				
REF. NO.	IC40013									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	5.1	0	0	0	0	0	11.6
REC	5.1	5.1	0	5.1	5.1	5.1	0	0	0	11.5
REF. NO.	IC40013									
MODE	11	12	13	14	15	16				
STOP	11.1	11.6	0	11.6	11.1	11.6				
REC	0	0	0	11.5	0	0				
REF. NO.	IC40014									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	0	0	5.2	5.2	0	0	0
REC	0	5.1	5.1	0	0	5.1	5.1	0	0	0
REF. NO.	IC40014									
MODE	11	12	13	14	15	16				
STOP	0	9.9	9.9	11.7	3.7	10.3				
REC	0	9.8	9.7	0	0.1	10.2				
REF. NO.	IC40015									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	0	0	0	5.2	0	0	0
REC	0	0	0	0	0	5.1	5.1	0	0.1	0
REF. NO.	IC40015									
MODE	11	12	13	14	15	16				
STOP	5.5	11.6	0.7	11.3	11.6	0.1				
REC	0.1	11.5	0.7	11.2	11.5	0.3				
REF. NO.	IC40021									
MODE	1	2	3	4	5					
STOP	4.8	4.7	0	5.1	5.2					
REC	4.8	4.7	0	5.1	5.1					
REF. NO.	Q40045			Q40046						
MODE	E	C	B	E	C	B				
STOP	5.1	−0.1	5.0	11.6	0	11.6				
REC	5.1	−0.2	5.0	11.5	0	11.5				

AUDIO METER SCHEMATIC DIAGRAM (E21)

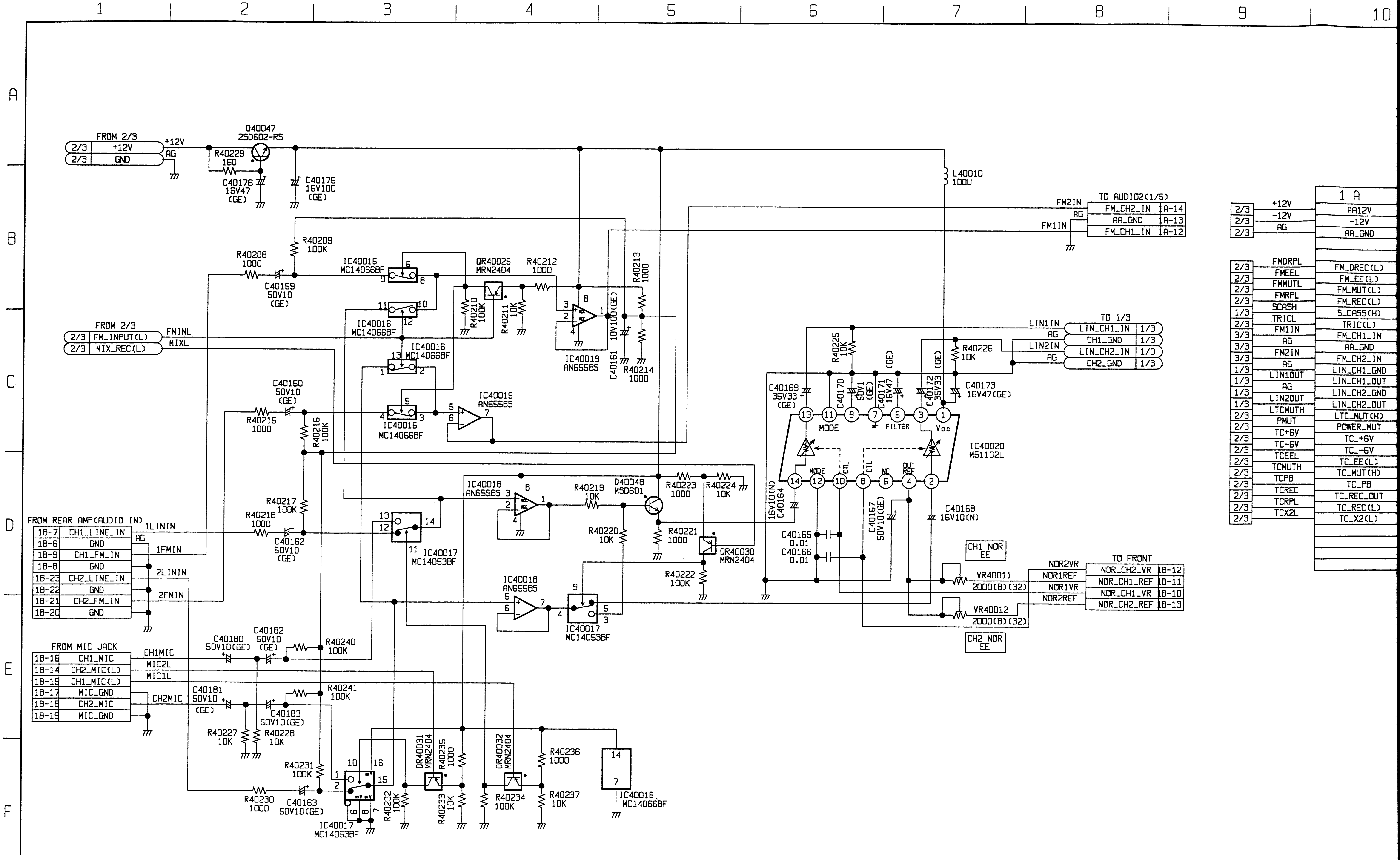
AUDIO (1) CONTROL DC VOLTAGE CHART

REF. NO.	IC40006					IC40007				
MODE	1	2	3			1	2	3		
STOP	4.7	4.7	0			5.1	5.1	0		
REC	4.7	4.7	0			5.1	5.1	0		
REF. NO.	IC40008									
MODE	1	2	3	4	5	6	7			
STOP	2.5	0.6	0.1	0	1.1	4.8	10.0			
REC	2.5	0.7	0.1	0	1.1	4.8	9.8			
REF. NO.	IC40009									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0.5	0	0	0	0	0	−6.2	0	0	5.5
REC	0	0	0	0	0	0	−6.2	0	0	0.1
REF. NO.	IC40009									
MODE	11	12	13	14	15	16				
STOP	5.5	0	0.1	0	0	6.0				
REC	0.1	0	0	0	0	5.9				
REF. NO.	IC40010									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	5.1	0	0	0	0	0	5.2
REC	0	5.1	5.1	5.1	0	5.1	5.1	0	5.1	5.1
REF. NO.	IC40010									
MODE	11	12	13	14	15	16				
STOP	5.1	4.2	0	0.5	5.1	5.2				
REC	5.0	4.3	0	0.4	5.1	5.1				
REF. NO.	IC40011									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	5.1	0	0	0	0	5.2	0	0	0	5.2
REC	5.1	0	0	5.1	0	5.1	5.1	0	5.1	5.1
REF. NO.	IC40011									
MODE	11	12	13	14	15	16				
STOP	5.1	4.2	0	0	0	5.2				
REC	5.0	4.3	0	5.1	0	5.1				
REF. NO.	IC40012									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	5.1	0	0	0	0	5.2	0	0	0.1	5.2
REC	5.1	5.1	0	0	0	5.1	0	0	0.1	5.1
REF. NO.	IC40012									
MODE	11	12	13	14	15	16				
STOP	5.1	4.3	0	0	0	5.2				
REC	5.0	4.3	0	5.1	0	5.1				
REF. NO.	IC40013									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	5.1	0	0	0	0	0	11.6
REC	5.1	5.1	0	5.1	5.1	5.1	0	0	0	11.5
REF. NO.	IC40013									
MODE	11	12	13	14	15	16				
STOP	11.1	11.6	0	11.6	11.1	11.6				
REC	0	0	0	11.5	0	0				
REF. NO.	IC40014									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	0	0	5.2	5.2	0	0	0
REC	0	5.1	5.1	0	0	5.1	5.1	0	0	0
REF. NO.	IC40014									
MODE	11	12	13	14	15	16				
STOP	0	9.9	9.9	11.7	3.7	10.3				
REC	0	9.8	9.7	0	0.1	10.2				
REF. NO.	IC40015									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	0	0	0	5.2	0	0	0
REC	0	0	0	0	0	5.1	5.1	0	0.1	0
REF. NO.	IC40015									
MODE	11	12	13	14	15	16				
STOP	5.5	11.6	0.7	11.3	11.6	0.1				
REC	0.1	11.5	0.7	11.2	11.5	0.3				
REF. NO.	IC40021									
MODE	1	2	3	4	5					
STOP	4.8	4.7	0	5.1	5.2					
REC	4.8	4.7	0	5.1	5.1					
REF. NO.	Q40045			Q40046						
MODE	E	C	B	E	C	B				
STOP	5.1	−0.1	5.0	11.6	0	11.6				
REC	5.1	−0.2	5.0	11.5	0	11.5				

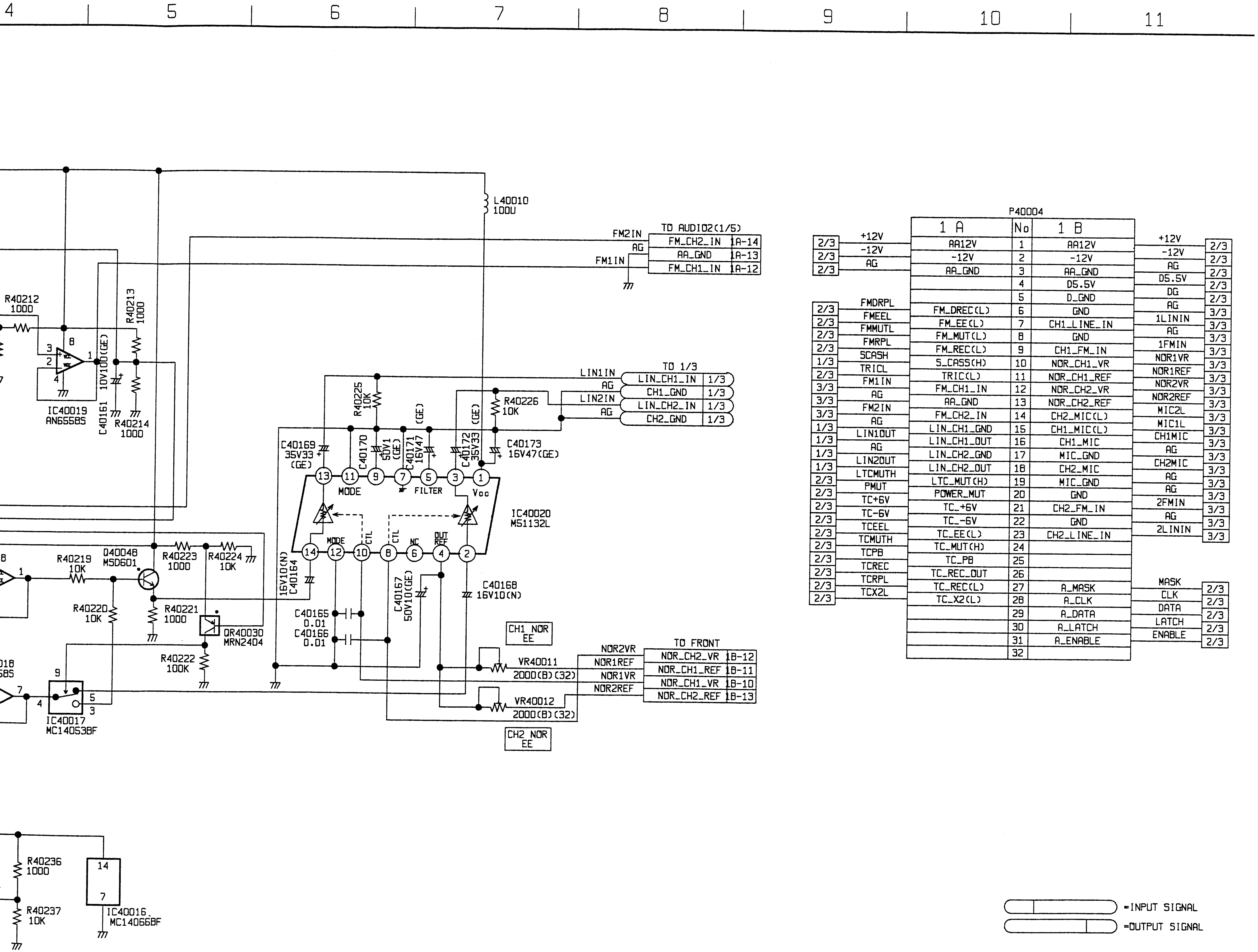

1
2
3
4
5
6
7
A
B
C
D
E
R4210
150
R4202
150
D4204
LN440YCPUVT1
D4205
LN440YCPUVT1
D4206
LN440YCPUVT1
R4209
150
R4201
150
D4201
LN440YCPUVT1
D4202
LN440YCPUVT1
D4203
LN440YCPUVT1
MT4201
VSE0115
MT4202
VSE0117
P4201 *
1 +12V
2 GND
3 CH2 METER
4 METER GND
5 CH1 METER
6 NOR CH1 VR
7 NOR CH1 REF
8 NOR CH2 VR
9 NOR CH2 REF
10 VR GND
11 HIFI VR REF
12 HIFI CH2 VR
13 HIFI CH1 VR
P4201
AG-7600 6-13PIN NOT
AG-7700 ONLY
R4203 *
R4204 *
VR4201 *
NORM CH1
LEVEL
D4207 *
R4205 *
VR4202 *
D4208 *
R4206 *
NORM CH2
LEVEL
VR4203 *
R4214
NOT USED
HIFI CH1
LEVEL
R4207 *
VR4204 *
HIFI CH2
LEVEL
R4216
NOT USED
R4208 *
*=REFER TO THE COMPARISON CHART

	AG-7700	AG-7600
D4207	MA165	————
D4208	MA165	————
P4201	VJP3081	VJP3529
R4203	2200	————
R4204	2700	————
R4205	2200	————
R4206	2700	————
R4207	510(G)	————
R4208	510(G)	————
VR4201	10KB	————
VR4202	10KB	————
VR4203	10KB	————
VR4204	10KB	————

AUDIO (1) INPUT (AG-7700) SCHEMATIC DIAGRAM 3/3 (E7: Page CBA-9)



1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
FROM 2/3
2/3 +12V
2/3 GND
+12V
AG
Q40047
2SD602-RS
R40229
150
C40176
16V47
(GE)
C40175
16V100
(GE)
L40010
100U
FM2IN
AG
FM1IN
TO AUDIO2(1/5)
FM_CH2_IN 1A-14
AA_GND 1A-13
FM_CH1_IN 1A-12
R40209
100K
R40208
1000
C40159
50V10
(GE)
IC40016
MC14066BF
QR40029
MRN2404
R40212
1000
R40213
1000
R40210
100K
R40211
10K
IC40019
AN6558S
C40161 10V100(GE)
R40214
1000
FROM 2/3
2/3 FM_INPUT(L)
2/3 MIX_REC(L)
FMINL
MIXL
C40160
50V10
(GE)
R40215
1000
R40216
100K
R40217
100K
R40218
1000
C40162
50V10
(GE)
IC40017
MC14053BF
IC40018
AN6558S
R40219
10K
Q40048
MSD601
R40223
1000
R40224
10K
R40220
10K
R40221
1000
QR40030
MRN2404
R40222
100K
FROM REAR AMP(AUDIO IN)
1B-7 CH1_LINE_IN
1B-6 GND
1B-9 CH1_FM_IN
1B-8 GND
1B-23 CH2_LINE_IN
1B-22 GND
1B-21 CH2_FM_IN
1B-20 GND
1LININ
AG
1FMIN
2LININ
2FMIN
FROM MIC JACK
1B-16 CH1_MIC
1B-14 CH2_MIC(L)
1B-15 CH1_MIC(L)
1B-17 MIC_GND
1B-18 CH2_MIC
1B-19 MIC_GND
CH1MIC
MIC2L
MIC1L
CH2MIC
C40180
50V10(GE)
C40182
50V10
(GE)
R40240
100K
C40181
50V10
(GE)
R40241
100K
C40183
50V10(GE)
R40227
10K
R40228
10K
R40231
100K
R40230
1000
C40163
50V10(GE)
IC40017
MC14053BF
R40232
100K
QR40031
MRN2404
R40235
1000
R40233
10K
QR40032
MRN2404
R40234
100K
R40236
1000
R40237
10K
IC40016
MC14066BF
TO 1/3
LIN1IN
AG
LIN2IN
AG
LIN_CH1_IN 1/3
CH1_GND 1/3
LIN_CH2_IN 1/3
CH2_GND 1/3
R40225
10K
R40226
10K
C40169
35V33
(GE)
C40170
C40171 16V47
C40172 35V33
C40173
16V47(GE)
50V1 (GE)
IC40020
M51132L
MODE
FILTER
Vcc
CTL
NC
OUT REF
C40164 16V10(N)
C40165
0.01
C40166
0.01
C40167
50V10(GE)
C40168
16V10(N)
CH1 NOR EE
CH2 NOR EE
NOR2VR
NOR1REF
NOR1VR
NOR2REF
VR40011
2000(B)(32)
VR40012
2000(B)(32)
TO FRONT
NOR_CH2_VR 1B-12
NOR_CH1_REF 1B-11
NOR_CH1_VR 1B-10
NOR_CH2_REF 1B-13
1 A
2/3 +12V AA12V
2/3 -12V -12V
2/3 AG AA_GND
2/3 FMDRPL FM_DREC(L)
2/3 FMEEL FM_EE(L)
2/3 FMMUTL FM_MUT(L)
2/3 FMRPL FM_REC(L)
1/3 SCASH S_CASS(H)
2/3 TRICL TRIC(L)
3/3 FM1IN FM_CH1_IN
3/3 AG AA_GND
3/3 FM2IN FM_CH2_IN
1/3 AG LIN_CH1_GND
1/3 LIN1OUT LIN_CH1_OUT
1/3 AG LIN_CH2_GND
1/3 LIN2OUT LIN_CH2_OUT
2/3 LTCMUTH LTC_MUT(H)
2/3 PMUT POWER_MUT
2/3 TC+6V TC_+6V
2/3 TC-6V TC_-6V
2/3 TCEEL TC_EE(L)
2/3 TCMUTH TC_MUT(H)
2/3 TCPB TC_PB
2/3 TCREC TC_REC_OUT
2/3 TCRPL TC_REC(L)
2/3 TCX2L TC_X2(L)


4
5
6
7
8
9
10
11
R40212
1000
R40213
1000
10V100(GE)
C40161
R40214
1000
IC40019
AN6558S
8
3
2
4
1
L40010
100U
FM2IN
AG
FM1IN
TO AUDIO2(1/5)
FM_CH2_IN
1A-14
AA_GND
1A-13
FM_CH1_IN
1A-12
LIN1IN
AG
LIN2IN
AG
TO 1/3
LIN_CH1_IN
1/3
CH1_GND
1/3
LIN_CH2_IN
1/3
CH2_GND
1/3
R40225
10K
R40226
10K
C40169
35V33
(GE)
C40170
50V1
(GE)
C40171
16V47
(GE)
C40172
35V33
(GE)
C40173
16V47(GE)
MODE
FILTER
Vcc
CTL
NC
OUT REF
IC40020
M51132L
16V10(N)
C40164
C40165
0.01
C40166
0.01
C40167
50V10(GE)
C40168
16V10(N)
R40219
10K
Q40048
MSD601
R40223
1000
R40224
10K
R40220
10K
R40221
1000
QR40030
MRN2404
R40222
100K
018
585
9
7
4
5
3
IC40017
MC14053BF
CH1 NOR
EE
CH2 NOR
EE
VR40011
2000(B)(32)
VR40012
2000(B)(32)
NOR2VR
NOR1REF
NOR1VR
NOR2REF
TO FRONT
NOR_CH2_VR
1B-12
NOR_CH1_REF
1B-11
NOR_CH1_VR
1B-10
NOR_CH2_REF
1B-13
R40236
1000
R40237
10K
14
7
IC40016
MC14066BF
P40004
+12V
-12V
AG
FMDRPL
FMEEL
FMMUTL
FMRPL
SCASH
TRICL
FM1IN
AG
FM2IN
AG
LIN1OUT
AG
LIN2OUT
LTCMUTH
PMUT
TC+6V
TC-6V
TCEEL
TCMUTH
TCPB
TCREC
TCRPL
TCX2L
+12V
-12V
AG
D5.5V
DG
AG
1LININ
AG
1FMIN
NOR1VR
NOR1REF
NOR2VR
NOR2REF
MIC2L
MIC1L
CH1MIC
AG
CH2MIC
AG
AG
2FMIN
AG
2LININ
MASK
CLK
DATA
LATCH
ENABLE
2/3
1/3
3/3
=INPUT SIGNAL
=OUTPUT SIGNAL

P40004

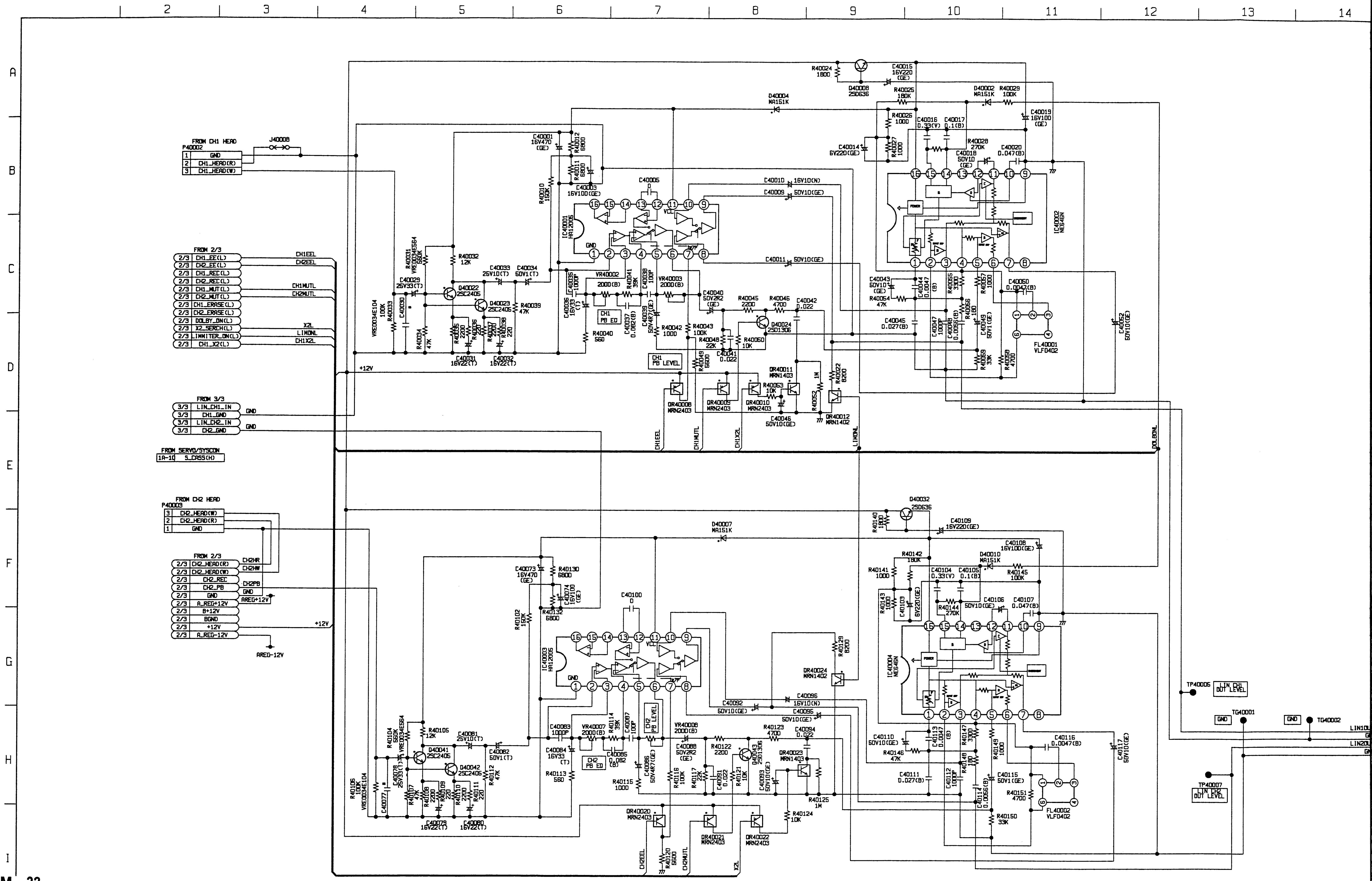
1 A	No	1 B
AA12V	1	AA12V
-12V	2	-12V
AA_GND	3	AA_GND
	4	D5.5V
	5	D_GND
FM_DREC(L)	6	GND
FM_EE(L)	7	CH1_LINE_IN
FM_MUT(L)	8	GND
FM_REC(L)	9	CH1_FM_IN
S_CASS(H)	10	NOR_CH1_VR
TRIC(L)	11	NOR_CH1_REF
FM_CH1_IN	12	NOR_CH2_VR
AA_GND	13	NOR_CH2_REF
FM_CH2_IN	14	CH2_MIC(L)
LIN_CH1_GND	15	CH1_MIC(L)
LIN_CH1_OUT	16	CH1_MIC
LIN_CH2_GND	17	MIC_GND
LIN_CH2_OUT	18	CH2_MIC
LTC_MUT(H)	19	MIC_GND
POWER_MUT	20	GND
TC_+6V	21	CH2_FM_IN
TC_-6V	22	GND
TC_EE(L)	23	CH2_LINE_IN
TC_MUT(H)	24	
TC_PB	25	
TC_REC_OUT	26	
TC_REC(L)	27	A_MASK
TC_X2(L)	28	A_CLK
	29	A_DATA
	30	A_LATCH
	31	A_ENABLE
	32	

Ref No.40000 Serise.

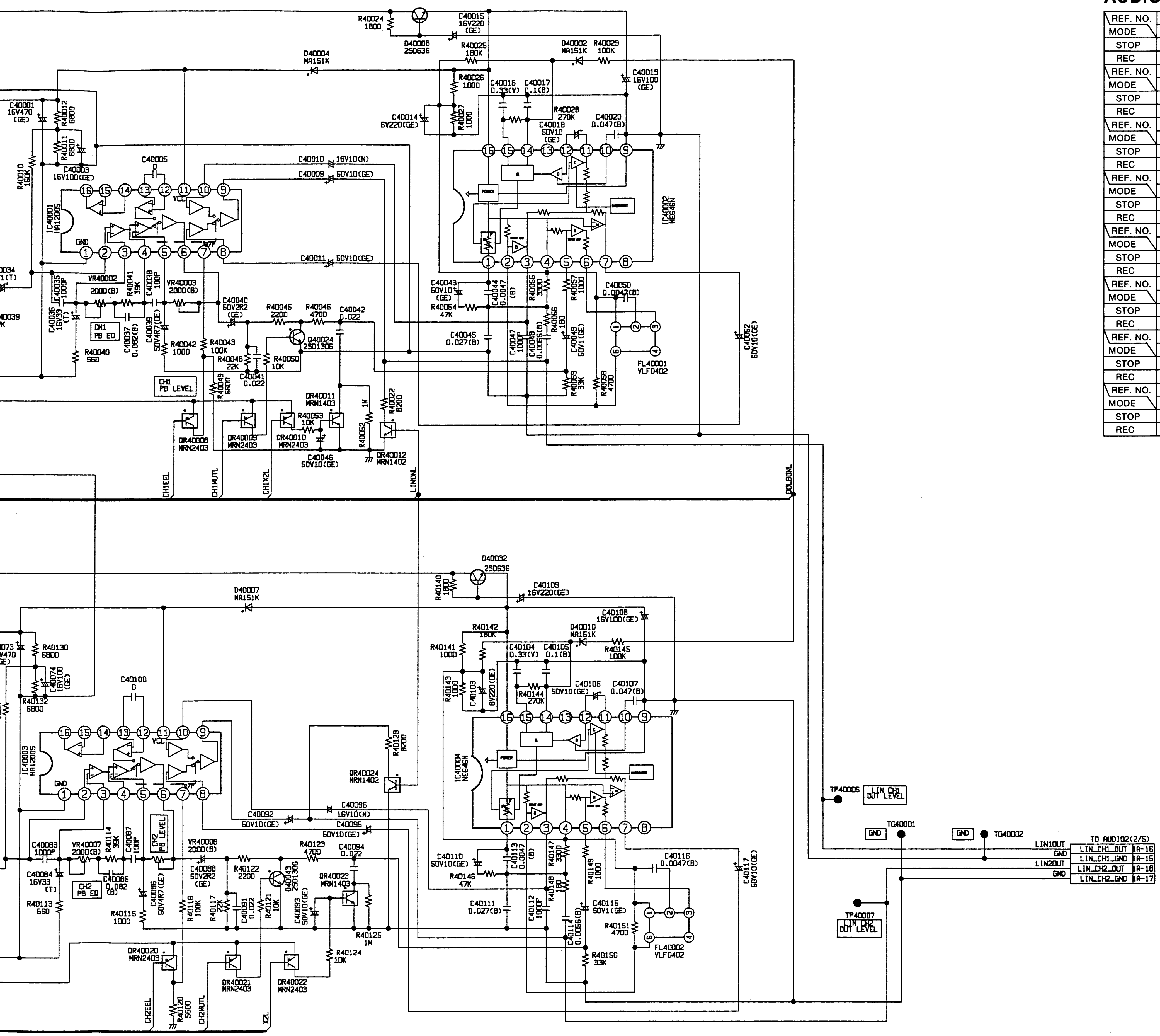
AUDIO (1) INPUT DC VOLTAGE CHART

REF. NO.	IC40016									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	5.6	5.6	5.6	5.4	0	0	0	5.6	5.4	5.6
REC	5.6	5.6	5.6	5.4	0	0	0	5.6	5.4	5.6
REF. NO.	IC40016									
MODE	11	12	13	14						
STOP	5.6	9.8	9.8	10.9						
REC	5.6	9.8	9.8	10.8						
REF. NO.	IC40017									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	5.4	5.6	5.5	5.7	5.7	5.6	0	0	0	0
REC	5.4	5.6	5.5	5.6	5.6	0	0	0	0	0
REF. NO.	IC40017									
MODE	11	12	13	14	15	16				
STOP	0	5.6	5.4	5.6	5.6	10.9				
REC	0	5.6	5.4	5.6	5.6	10.8				
REF. NO.	IC40018									
MODE	1	2	3	4	5	6	7	8		
STOP	5.7	5.7	5.6	0	5.6	5.7	5.7	10.9		
REC	5.6	5.6	5.6	0	5.6	5.6	5.6	10.8		
REF. NO.	IC40019									
MODE	1	2	3	4	5	6	7	8		
STOP	5.7	5.7	5.6	0	5.6	5.7	5.7	10.9		
REC	5.6	5.6	5.6	0	5.6	5.6	5.6	10.8		
REF. NO.	IC40020									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	10.8	4.8	4.3	5.5	10.7	0	0	2.7	0	2.7
REC	10.8	4.8	4.2	5.5	10.6	0	0	2.7	0	2.7
REF. NO.	IC40020									
MODE	11	12	13	14						
STOP	0	0	4.3	4.8						
REC	0	0	4.3	4.8						
REF. NO.	Q40047			Q40048						
MODE	E	C	B	E	C	B				
STOP	10.9	11.6	11.6	4.9	10.9	5.5				
REC	10.9	11.6	11.6	4.8	10.8	5.5				
REF. NO.	QR40029			QR40030			QR40031			
MODE	E	C	B	E	C	B	E	C	B	
STOP	9.9	0	9.8	9.9	0	9.8	9.9	0	9.8	
REC	9.9	0	9.8	9.8	0	9.7	9.8	0	9.8	
REF. NO.	QR40032									
MODE	E	C	B							
STOP	9.9	0	9.8							
REC	9.9	0	9.8							

AUDIO (1) LINER (AG-7600) SCHEMATIC DIAGRAM 1/3 (E7: Page CBA-9)



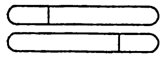
FROM CH1 HEAD
P40002
GND
CH1_HEAD(R)
CH1_HEAD(W)
J40008
FROM 2/3
CH1_EE(L)
CH2_EE(L)
CH1_REC(L)
CH2_REC(L)
CH1_MUT(L)
CH2_MUT(L)
CH1_ERASE(L)
CH2_ERASE(L)
DOLBY_ON(L)
X2_SERCH(L)
LIMMITER_ON(L)
CH1_X2(L)
CH1EEL
CH2EEL
CH1MUTL
CH2MUTL
X2L
LIMONL
CH1X2L
+12V
FROM 3/3
LIN_CH1_IN
CH1_GND
LIN_CH2_IN
CH2_GND
GND
FROM SERVO/SYSCON
1A-10
S_CASS(H)
FROM CH2 HEAD
P40003
CH2_HEAD(W)
CH2_HEAD(R)
CH2HR
CH2HW
CH2_REC
CH2_PB
CH2PB
AREG+12V
A_REG+12V
B+12V
BGND
A_REG-12V
AREG-12V
IC40001
HA12005
IC40002
NE646N
IC40003
HA12005
IC40004
NE646N
VCC
POWER
CH1 PB EQ
CH1 PB LEVEL
CH2 PB EQ
CH2 PB LEVEL
VR40002 2000(B)
VR40003 2000(B)
VR40007 2000(B)
VR40008 2000(B)
Q40022 2SC2405
Q40023 2SC2405
Q40024 2SD1306
Q40041 2SC2405
Q40042 2SC2405
Q40043 2SD1306
Q40008 2SD636
Q40032 2SD636
D40002 MA151K
D40004 MA151K
D40007 MA151K
D40010 MA151K
QR40008 MRN2403
QR40009 MRN2403
QR40010 MRN2403
QR40011 MRN1403
QR40012 MRN1402
QR40020 MRN2403
QR40021 MRN2403
QR40022 MRN2403
QR40023 MRN1403
QR40024 MRN1402
FL40001 VLF0402
FL40002 VLF0402
VREO034E564
VREO034E104
DOLBONL
LIMONL
CH1MUTL
CH1X2L
CH1EEL
CH2EEL
CH2MUTL
X2L
TP40005
LIN CH1 OUT LEVEL
TP40007
LIN CH2 OUT LEVEL
TG40001
TG40002
GND
LIN1OU
LIN2OU


6
7
8
9
10
11
12
13
14
15
16
R40024 1800
Q40008 2SD636
C40015 16V220 (GE)
R40025 180K
D40004 MA151K
D40002 MA151K
R40029 100K
C40019 16V100 (GE)
R40026 1000
C40016 0.33(V)
C40017 0.1(B)
C40014 6V220(GE)
R40027 1000
R40028 270K
C40018 50V10 (GE)
C40020 0.047(B)
C40001 16V470 (GE)
R40012 6800
R40011 6800
R40010 150K
C40003 16V100(GE)
C40005 D
C40010 16V10(N)
C40009 50V10(GE)
IC40001 HA12005
VCL
GND
IC40002 NE646N
C40011 50V10(GE)
VR40002 2000(B)
C40035 100P
R40041 39K
C40038 100P
VR40003 2000(B)
C40036 16V33 (T)
C40037 0.082(B)
C40039 50V4R7(GE)
CH1 PB EQ
R40040 560
R40042 1000
R40043 100K
C40040 50V2R2 (GE)
R40045 2200
R40046 4700
C40042 0.022
Q40024 2SD1306
R40048 22K
R40050 10K
C40041 0.022
CH1 PB LEVEL
R40049 5600
C40043 50V10 (GE)
R40054 47K
C40044 0.0047 (B)
R40055 330
R40057 1000
C40050 0.0047(B)
C40045 0.027(B)
C40047 100P
C40048 0.0056(B)
R40056 180
C40049 50V1(GE)
R40059 33K
R40058 4700
FL40001 VLF0402
C40052 50V10(GE)
QR40011 MRN1403
R40053 10K
R40052 1M
R40022 8200
QR40008 MRN2403
QR40009 MRN2403
QR40010 MRN2403
C40046 50V10(GE)
QR40012 MRN1402
CH1EEL
CH1MUTL
CH1X2L
LINMONL
DOLBONL
Q40032 2SD636
R40140 1800
C40109 16V220(GE)
D40007 MA151K
C40108 16V100(GE)
R40142 180K
D40010 MA151K
R40141 1000
C40104 0.33(V)
C40105 0.1(B)
R40145 100K
R40130 6800
C40073 16V470 (GE)
C40074 16V100 (GE)
R40132 6800
C40100 D
R40143 1000
C40103 6V220(GE)
R40144 270K
C40106 50V10(GE)
C40107 0.047(B)
IC40003 HA12005
IC40004 NE646N
R40129 8200
QR40024 MRN1402
C40096 16V10(N)
C40092 50V10(GE)
C40095 50V10(GE)
C40083 100P
C40084 16V33 (T)
VR40007 2000(B)
R40114 39K
C40087 100P
CH2 PB LEVEL
VR40008 2000(B)
R40123 4700
C40094 0.022
C40085 0.082 (B)
CH2 PB EQ
C40086 50V4R7(GE)
C40088 50V2R2 (GE)
R40122 2200
Q40043 2SD1306
QR40023 MRN1403
C40110 50V10(GE)
R40146 47K
C40113 0.0047 (B)
R40147 330
R40149 1000
C40116 0.0047(B)
C40117 50V10(GE)
R40113 560
R40115 1000
R40116 100K
R40117 22K
C40091 0.022
R40121 10K
C40093 50V10(GE)
R40125 1M
C40111 0.027(B)
C40112 100P
R40148 180
C40114 0.0056(B)
C40115 50V1(GE)
R40151 4700
FL40002 VLF0402
R40150 33K
QR40020 MRN2403
QR40021 MRN2403
QR40022 MRN2403
R40124 10K
R40120 5600
CH2EEL
CH2MUTL
X2L
TP40005
LIN CH1 OUT LEVEL
TG40001
GND
TG40002
TP40007
LIN CH2 OUT LEVEL
LIN1OUT
LIN2OUT
TO AUD102(2/5)
LIN_CH1_OUT 1A-16
LIN_CH1_GND 1A-15
LIN_CH2_OUT 1A-18
LIN_CH2_GND 1A-17
POWER

AUDIO (1) LINER DC VOLTAGE CHART

REF. NO.	IC40001																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	4.8	4.9	4.9	4.9	4.9	10.3	4.9	4.9	4.9	9.8	4.8	4.9	−0.1	−0.2	8.9		
REC	0	4.8	4.9	4.9	4.9	4.9	10.3	4.9	4.9	4.9	9.8	4.8	4.9	0	0	8.9		
REF. NO.	IC40002																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	5.3	5.3	5.4	5.3	5.3	5.3	5.1	0	0	5.3	5.4	5.3	0	8.1	7.9	10.6		
REC	5.3	5.3	5.4	5.3	5.2	5.3	5.1	0	0	5.3	5.4	5.3	0	8.1	7.9	10.6		
REF. NO.	IC40003																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	4.8	4.9	4.9	4.9	4.9	10.3	4.9	4.9	4.9	9.8	4.9	4.9	−0.1	−0.1	8.9		
REC	0	4.8	4.9	4.9	4.9	4.9	10.3	4.9	4.9	4.9	9.8	4.9	4.9	0	0	8.9		
REF. NO.	IC40004																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	5.3	5.3	5.4	5.3	5.3	5.3	5.1	0	0	5.3	5.4	5.3	0	8.1	7.9	0		
REC	5.3	5.3	5.4	5.3	5.2	5.3	5.1	0	0	5.3	5.4	5.3	0	8.1	7.9	10.6		
REF. NO.	Q40008			Q40022			Q40023			Q40024			Q40041			Q40042		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	10.6	11.6	11.3	0.2	7.8	0.7	0.2	7.8	0.7	0	0	0	0.2	7.7	0.7	0.2	7.7	0.7
REC	10.6	11.5	11.3	0.2	7.7	0.7	0.2	7.7	0.7	0	0	−0.1	0.2	7.7	0.7	0.2	7.7	0.7
REF. NO.	Q40043																	
MODE	E	C	B															
STOP	0	0	−0.1															
REC	0	0	−0.1															
REF. NO.	QR40008			QR40009			QR40010			QR40011			QR40012			QR40020		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	11.6	11.6	0	11.6	−0.1	11.6	11.6	0	11.6	0	0	0	0	0	0	11.6	11.6	0
REC	11.5	11.5	0	11.5	0	11.5	11.5	0	11.5	0	0	0	0	0	0	11.5	11.5	0
REF. NO.	QR40021			QR40022			QR40023			QR40024								
MODE	E	C	B	E	C	B	E	C	B	E	C	B						
STOP	11.6	0	11.5	11.6	0	11.5	0	0	0	0	0	0						
REC	11.5	0	11.5	11.5	0	11.5	0	0	0	0	0	0						

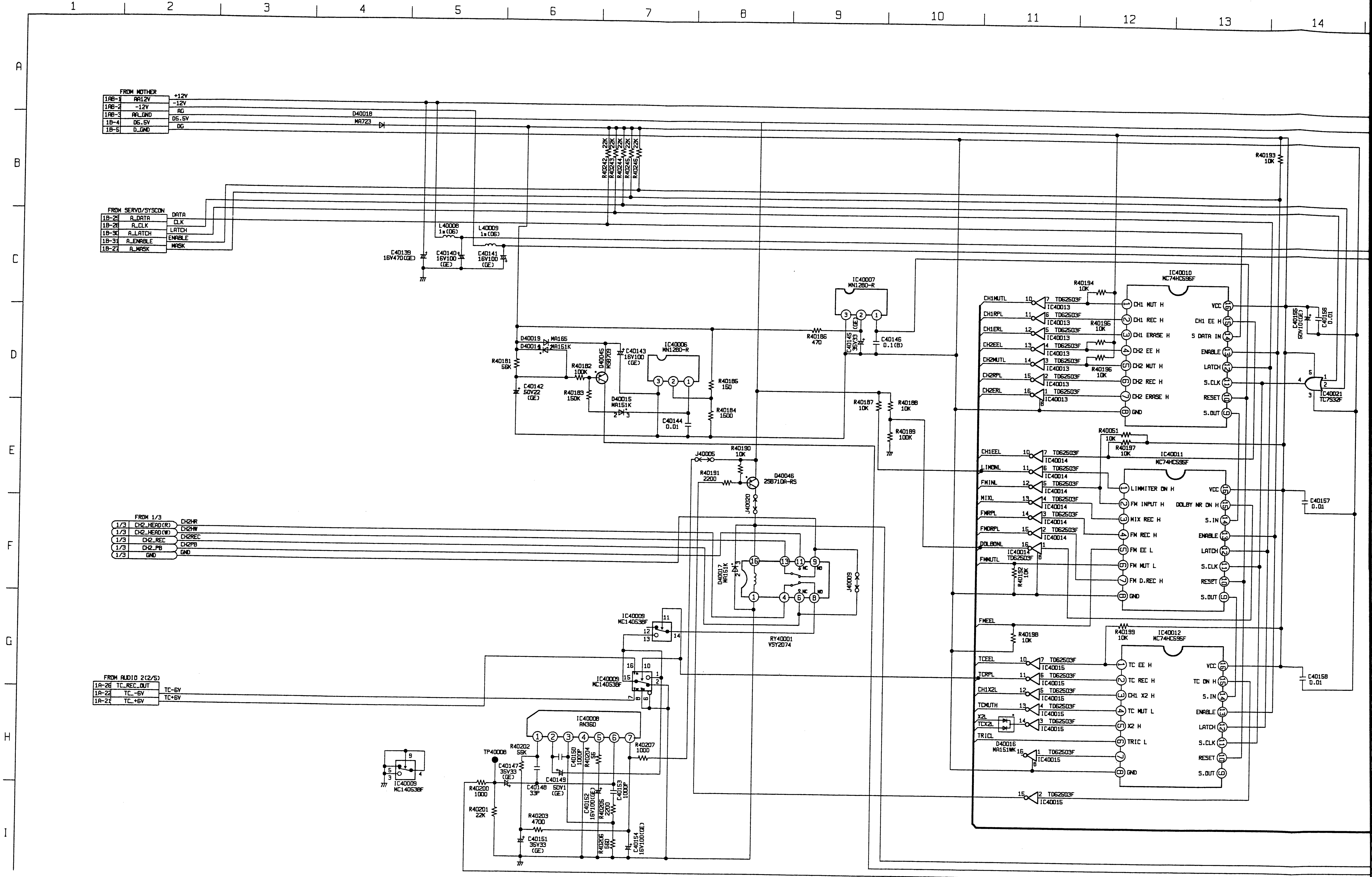
	AG-7600
C40030	1800P
C40077	1800P


-INPUT SIGNAL
-OUTPUT SIGNAL

*-REFER TO THE COMPARISON CHART

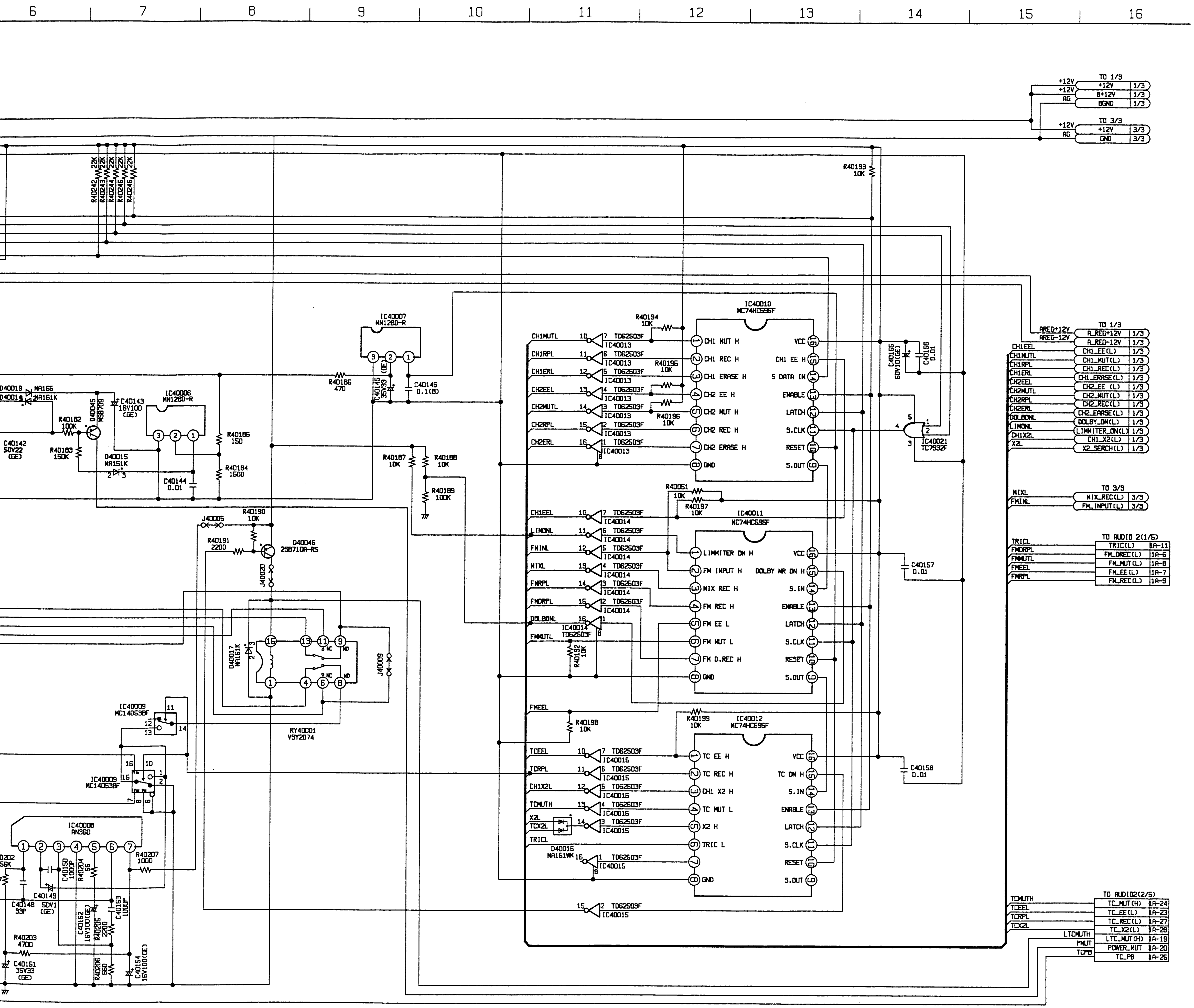
Ref NO.40000 Series.

AUDIO (1) CONTROL (AG-7600) SCHEMATIC DIAGRAM 2/3 (E7: Page CBA-9)



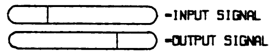
1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
FROM MOTHER
1AB-1 AA12V +12V
1AB-2 -12V -12V
1AB-3 AA_GND AG
1B-4 D5.5V D5.5V
1B-5 D_GND DG
D40018
MA723
R40242 22K
R40243 22K
R40244 22K
R40245 22K
R40246 22K
FROM SERVO/SYSCON
1B-25 A_DATA DATA
1B-28 A_CLK CLK
1B-30 A_LATCH LATCH
1B-31 A_ENABLE ENABLE
1B-27 A_MASK MASK
L40008 1μ(D6)
L40009 1μ(D6)
C40139 16V470(GE)
C40140 16V100 (GE)
C40141 16V100 (GE)
IC40007 MN1280-R
R40186 470
C40145 35V33 (GE)
C40146 0.1(B)
D40019 MA165
D40014 MA151K
R40181 56K
R40182 100K
D40045 MSB709
C40143 16V100 (GE)
IC40006 MN1280-R
C40142 50V22 (GE)
R40183 150K
D40015 MA151K
R40185 150
R40184 1500
C40144 0.01
R40187 10K
R40188 10K
R40189 100K
J40005
R40190 10K
R40191 2200
D40046 2SB710A-RS
J40020
D40017 MA151K
J40009
RY40001 VSY2074
NC
NO
FROM 1/3
1/3 CH2_HEAD(R) CH2HR
1/3 CH2_HEAD(W) CH2HW
1/3 CH2_REC CH2REC
1/3 CH2_PB CH2PB
1/3 GND GND
IC40009 MC14053BF
FROM AUDIO 2(2/5)
1A-26 TC_REC_OUT
1A-22 TC_-6V TC-6V
1A-21 TC_+6V TC+6V
IC40008 AN360
TP40008
R40202 56K
C40147 35V33 (GE)
C40150 1000P
R40204 56
R40207 1000
C40149 50V1 (GE)
C40148 33P
C40152 16V100(GE)
R40205 2200
C40153 1000P
R40200 1000
R40201 22K
R40203 4700
C40151 35V33 (GE)
R40206 680
C40154 16V100(GE)
R40194 10K
IC40010 MC74HC595F
CH1MUTL
CH1RPL
CH1ERL
CH2EEL
CH2MUTL
CH2RPL
CH2ERL
TD62503F
IC40013
R40195 10K
R40196 10K
CH1 MUT H
CH1 REC H
CH1 ERASE H
CH2 EE H
CH2 MUT H
CH2 REC H
CH2 ERASE H
GND
VCC
CH1 EE H
S DATA IN
ENABLE
LATCH
S.CLK
RESET
S.OUT
R40193 10K
C40155 50V10(GE)
C40156 0.01
IC40021 TC7S32F
R40051 10K
R40197 10K
IC40011 MC74HC595F
CH1EEL
LIMONL
FMINL
MIXL
FMRPL
FMDRPL
DOLBONL
FMMUTL
IC40014
R40192 10K
LIMMITER ON H
FM INPUT H
MIX REC H
FM REC H
FM EE L
FM MUT L
FM D.REC H
DOLBY NR ON H
S.IN
C40157 0.01
FMEEL
R40198 10K
R40199 10K
IC40012 MC74HC595F
TCEEL
TCRPL
CH1X2L
TCMUTH
X2L
TCX2L
TRICL
IC40015
D40016 MA151WK
TC EE H
TC REC H
CH1 X2 H
TC MUT L
X2 H
TRIC L
TC ON H
C40158 0.01

/3 (E7: Page CBA-9)


6
7
8
9
10
11
12
13
14
15
16
IC40006
MN1280-R
IC40007
MN1280-R
IC40008
AN360
IC40009
MC14053BF
IC40010
MC74HC595F
IC40011
MC74HC595F
IC40012
MC74HC595F
IC40013
IC40014
IC40015
TD62503F
IC40021
TC7S32F
RY40001
VSY2074
D40045
MA165
MA151K
D40046
2SB710A-RS
D40015
MA151K
D40016
MA151WK
D40017
MA151K
J40005
J40009
J40020
R40193
10K
R40194
10K
R40195
10K
R40196
10K
R40197
10K
R40198
10K
R40199
10K
R40190
10K
R40191
2200
R40192
10K
R40186
470
R40187
10K
R40188
10K
R40189
100K
R40182
100K
R40183
150K
R40184
1500
R40185
150
R40051
10K
R40207
1000
R40203
4700
C40143
16V100
C40144
0.01
C40145
35V33
C40146
0.1(B)
C40155
50V10(GE)
C40156
0.01
C40157
0.01
C40158
0.01
C40142
50V22
C40148
33P
C40149
C40150
1000P
C40151
35V33
C40152
16V100(GE)
C40153
1000P
C40154
16V100(GE)
CH1 MUT H
CH1 REC H
CH1 ERASE H
CH2 EE H
CH2 MUT H
CH2 REC H
CH2 ERASE H
GND
VCC
CH1 EE H
S DATA IN
ENABLE
LATCH
S.CLK
RESET
S.OUT
LIMMITER ON H
FM INPUT H
MIX REC H
FM REC H
FM EE L
FM MUT L
FM D.REC H
DOLBY NR ON H
S.IN
TC EE H
TC REC H
CH1 X2 H
TC MUT L
X2 H
TRIC L
TC ON H
CH1MUTL
CH1RPL
CH1ERL
CH2EEL
CH2MUTL
CH2RPL
CH2ERL
CH1EEL
LIMONL
FMINL
MIXL
FMRPL
FMDRPL
DOLBONL
FMMUTL
FMEEL
TCEEL
TCRPL
CH1X2L
TCMUTH
X2L
TCX2L
TRICL
+12V
AG
AREG+12V
AREG-12V
TO 1/3
+12V
B+12V
BGND
TO 3/3
GND
A_REG+12V
A_REG-12V
CH1_EE(L)
CH1_MUT(L)
CH1_REC(L)
CH1_ERASE(L)
CH2_EE (L)
CH2_MUT(L)
CH2_REC(L)
CH2_ERASE(L)
DOLBY_ON(L)
LIMMITER_ON(L)
CH1_X2(L)
X2_SERCH(L)
MIX_REC(L)
FM_INPUT(L)
TO AUDIO 2(1/5)
TRIC(L)
FM_DREC(L)
FM_MUT(L)
FM_EE(L)
FM_REC(L)
TO AUDIO2(2/5)
TC_MUT(H)
TC_EE(L)
TC_REC(L)
TC_X2(L)
LTC_MUT(H)
POWER_MUT
TC_PB
LTCMUTH
PMUT
TCPB
R40242
R40243
R40244
R40245
R40246
22K

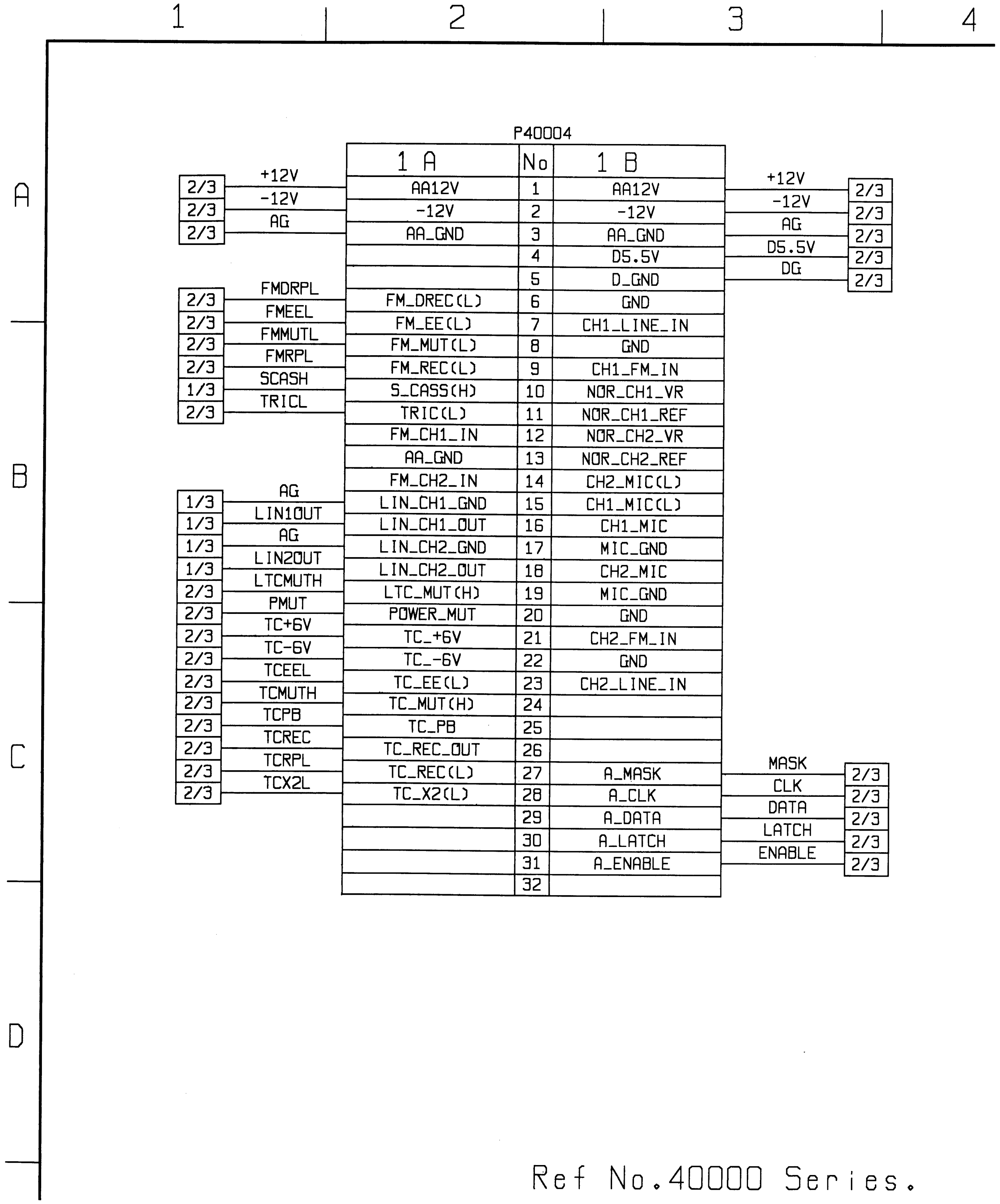
AUDIO (1) CONTROL DC VOLTAGE CHART

REF. NO.	IC40006					IC40007				
MODE	1	2	3			1	2	3		
STOP	4.7	4.7	0			5.1	5.1	0		
REC	4.7	4.7	0			5.1	5.1	0		
REF. NO.	IC40008									
MODE	1	2	3	4	5	6	7			
STOP	2.5	0.6	0.1	0	1.1	4.8	10.0			
REC	2.5	0.7	0.1	0	1.1	4.8	9.8			
REF. NO.	IC40009									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0.5	0	0	0	0	0	−6.2	0	0	5.5
REC	0	0	0	0	0	0	−6.2	0	0	0.1
REF. NO.	IC40009									
MODE	11	12	13	14	15	16				
STOP	5.5	0	0.1	0	0	6.0				
REC	0.1	0	0	0	0	5.9				
REF. NO.	IC40010									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	5.1	0	0	0	0	0	5.2
REC	0	5.1	5.1	5.1	0	5.1	5.1	0	5.1	5.1
REF. NO.	IC40010									
MODE	11	12	13	14	15	16				
STOP	5.1	4.2	0	0.5	5.1	5.2				
REC	5.0	4.3	0	0.4	5.1	5.1				
REF. NO.	IC40011									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	5.1	0	0	0	0	5.2	0	0	0	5.2
REC	5.1	0	0	5.1	0	5.1	5.1	0	5.1	5.1
REF. NO.	IC40011									
MODE	11	12	13	14	15	16				
STOP	5.1	4.2	0	0	0	5.2				
REC	5.0	4.3	0	5.1	0	5.1				
REF. NO.	IC40012									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	5.1	0	0	0	0	5.2	0	0	0.1	5.2
REC	5.1	5.1	0	0	0	5.1	0	0	0.1	5.1
REF. NO.	IC40012									
MODE	11	12	13	14	15	16				
STOP	5.1	4.3	0	0	0	5.2				
REC	5.0	4.3	0	5.1	0	5.1				
REF. NO.	IC40013									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	5.1	0	0	0	0	0	11.6
REC	5.1	5.1	0	5.1	5.1	5.1	0	0	0	11.5
REF. NO.	IC40013									
MODE	11	12	13	14	15	16				
STOP	11.1	11.6	0	11.6	11.1	11.6				
REC	0	0	0	11.5	0	0				
REF. NO.	IC40014									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	0	0	5.2	5.2	0	0	0
REC	0	5.1	5.1	0	0	5.1	5.1	0	0	0
REF. NO.	IC40014									
MODE	11	12	13	14	15	16				
STOP	0	9.9	9.9	11.7	3.7	10.3				
REC	0	9.8	9.7	0	0.1	10.2				
REF. NO.	IC40015									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	0	0	0	5.2	0	0	0
REC	0	0	0	0	0	5.1	5.1	0	0.1	0
REF. NO.	IC40015									
MODE	11	12	13	14	15	16				
STOP	5.5	11.6	0.7	11.3	11.6	0.1				
REC	0.1	11.5	0.7	11.2	11.5	0.3				
REF. NO.	IC40021									
MODE	1	2	3	4	5					
STOP	4.8	4.7	0	5.1	5.2					
REC	4.8	4.7	0	5.1	5.1					
REF. NO.	Q40045			Q40046						
MODE	E	C	B	E	C	B				
STOP	5.1	−0.1	5.0	11.6	0	11.6				
REC	5.1	−0.2	5.0	11.5	0	11.5				


-INPUT SIGNAL
-OUTPUT SIGNAL

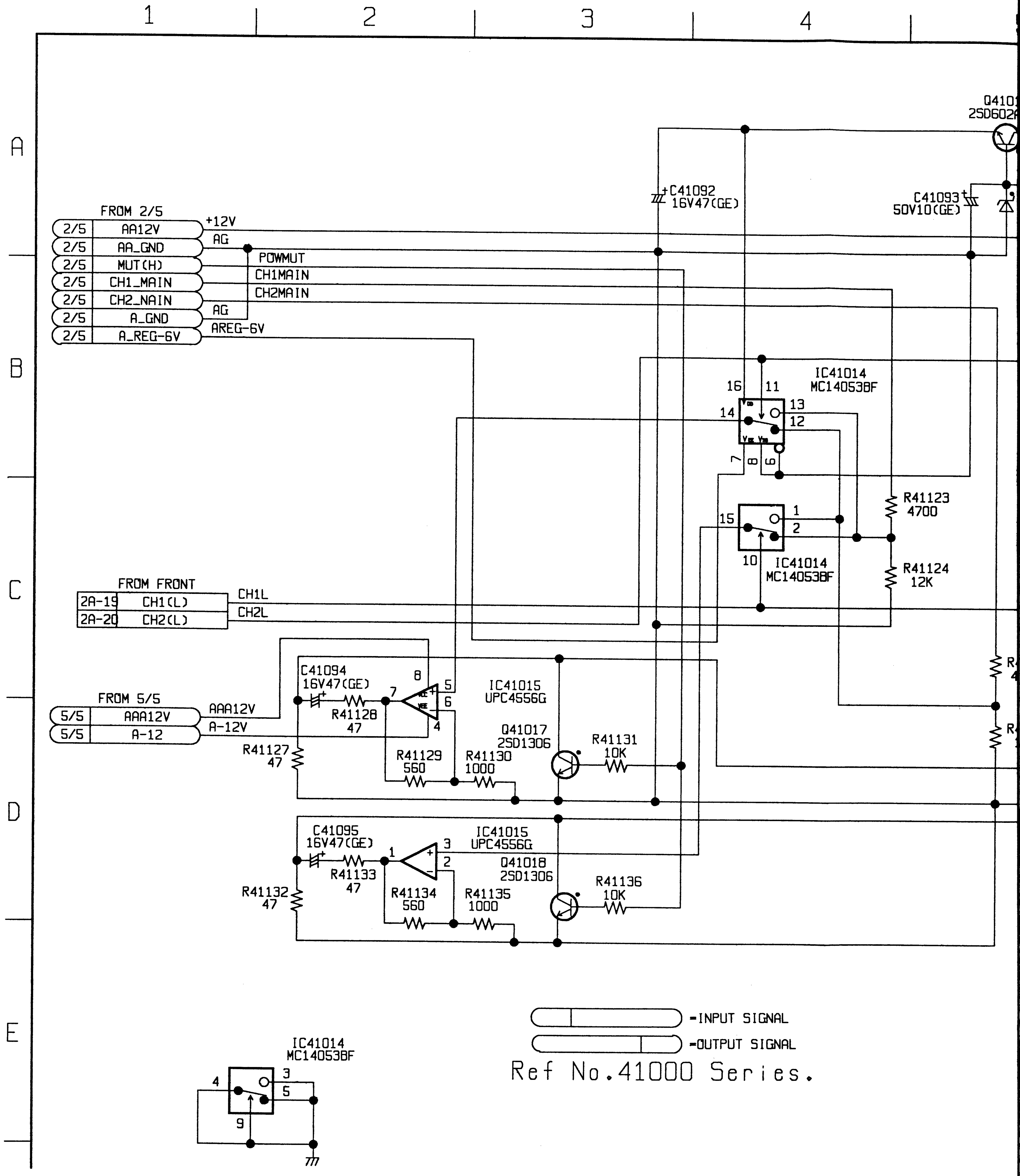
Ref No.40000 Serise.

AUDIO (1) INPUT (AG-7600) SCHEMATIC DIAGRAM 3/3 (E7: Page CBA-9)


1
2
3
4
A
B
C
D
P40004
1 A
No
1 B
+12V
-12V
AG
2/3
AA12V
-12V
AA_GND
D5.5V
D_GND
DG
FMDRPL
FMEEL
FMMUTL
FMRPL
SCASH
TRICL
1/3
FM_DREC(L)
FM_EE(L)
FM_MUT(L)
FM_REC(L)
S_CASS(H)
TRIC(L)
FM_CH1_IN
AA_GND
FM_CH2_IN
LIN_CH1_GND
LIN_CH1_OUT
LIN_CH2_GND
LIN_CH2_OUT
LTC_MUT(H)
POWER_MUT
TC_+6V
TC_-6V
TC_EE(L)
TC_MUT(H)
TC_PB
TC_REC_OUT
TC_REC(L)
TC_X2(L)
GND
CH1_LINE_IN
CH1_FM_IN
NOR_CH1_VR
NOR_CH1_REF
NOR_CH2_VR
NOR_CH2_REF
CH2_MIC(L)
CH1_MIC(L)
CH1_MIC
MIC_GND
CH2_MIC
CH2_FM_IN
CH2_LINE_IN
A_MASK
A_CLK
A_DATA
A_LATCH
A_ENABLE
LIN1OUT
LIN2OUT
LTCMUTH
PMUT
TC+6V
TC-6V
TCEEL
TCMUTH
TCPB
TCREC
TCRPL
TCX2L
MASK
CLK
DATA
LATCH
ENABLE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

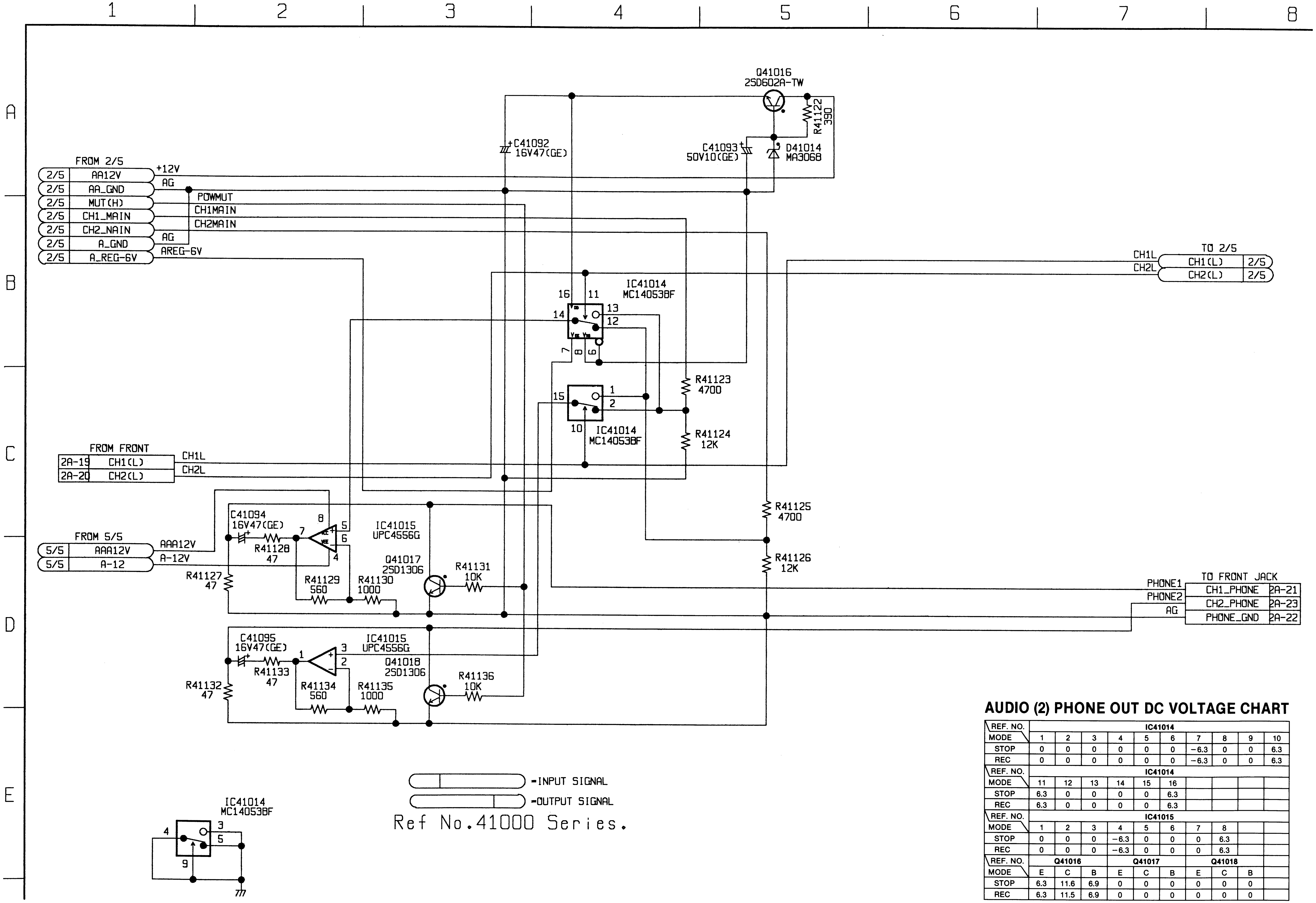
Ref No.40000 Series.

AUDIO (2) PHONE OUT (AG-7700) SCHEMATIC DIAGRAM 3/5 (E8: Page CBA-10)


1
2
3
4
A
B
C
D
E
Q4101
2SD602A
C41092
16V47(GE)
C41093
50V10(GE)
FROM 2/5
2/5
AA12V
AA_GND
MUT(H)
CH1_MAIN
CH2_NAIN
A_GND
A_REG-6V
+12V
AG
POWMUT
CH1MAIN
CH2MAIN
AREG-6V
IC41014
MC14053BF
16
11
14
13
12
7
8
6
15
1
2
10
R41123
4700
R41124
12K
FROM FRONT
2A-19
2A-20
CH1(L)
CH2(L)
CH1L
CH2L
C41094
16V47(GE)
R41128
47
IC41015
UPC4556G
5/5
FROM 5/5
AAA12V
A-12
A-12V
R41127
47
R41129
560
R41130
1000
Q41017
2SD1306
R41131
10K
C41095
16V47(GE)
R41133
47
R41132
47
R41134
560
R41135
1000
Q41018
2SD1306
R41136
10K
IC41014
MC14053BF
4
3
5
9
-INPUT SIGNAL
-OUTPUT SIGNAL

Ref No.41000 Series.

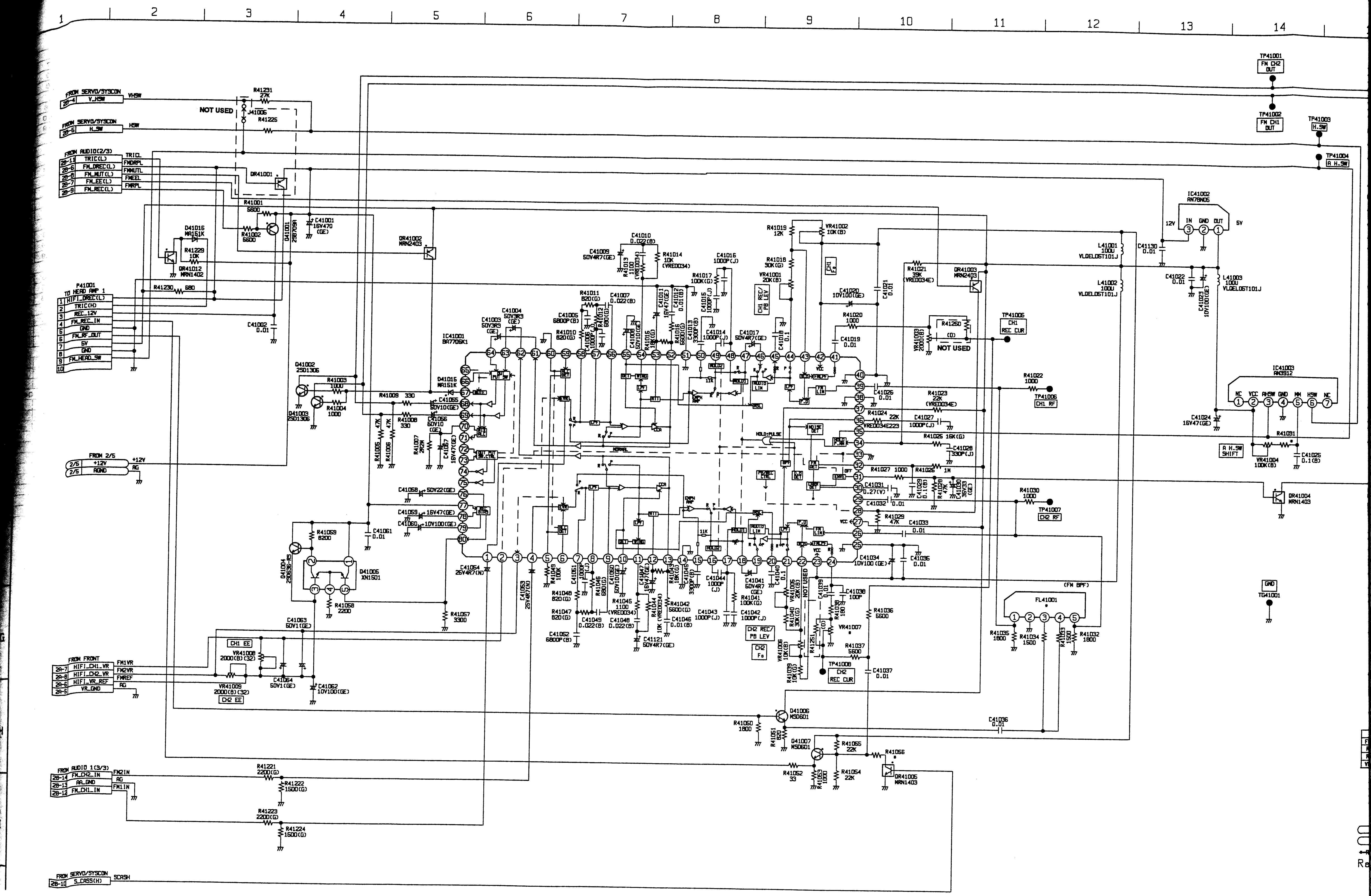
AUDIO (2) PHONE OUT (AG-7700) SCHEMATIC DIAGRAM 3/5 (E8: Page CBA-10)

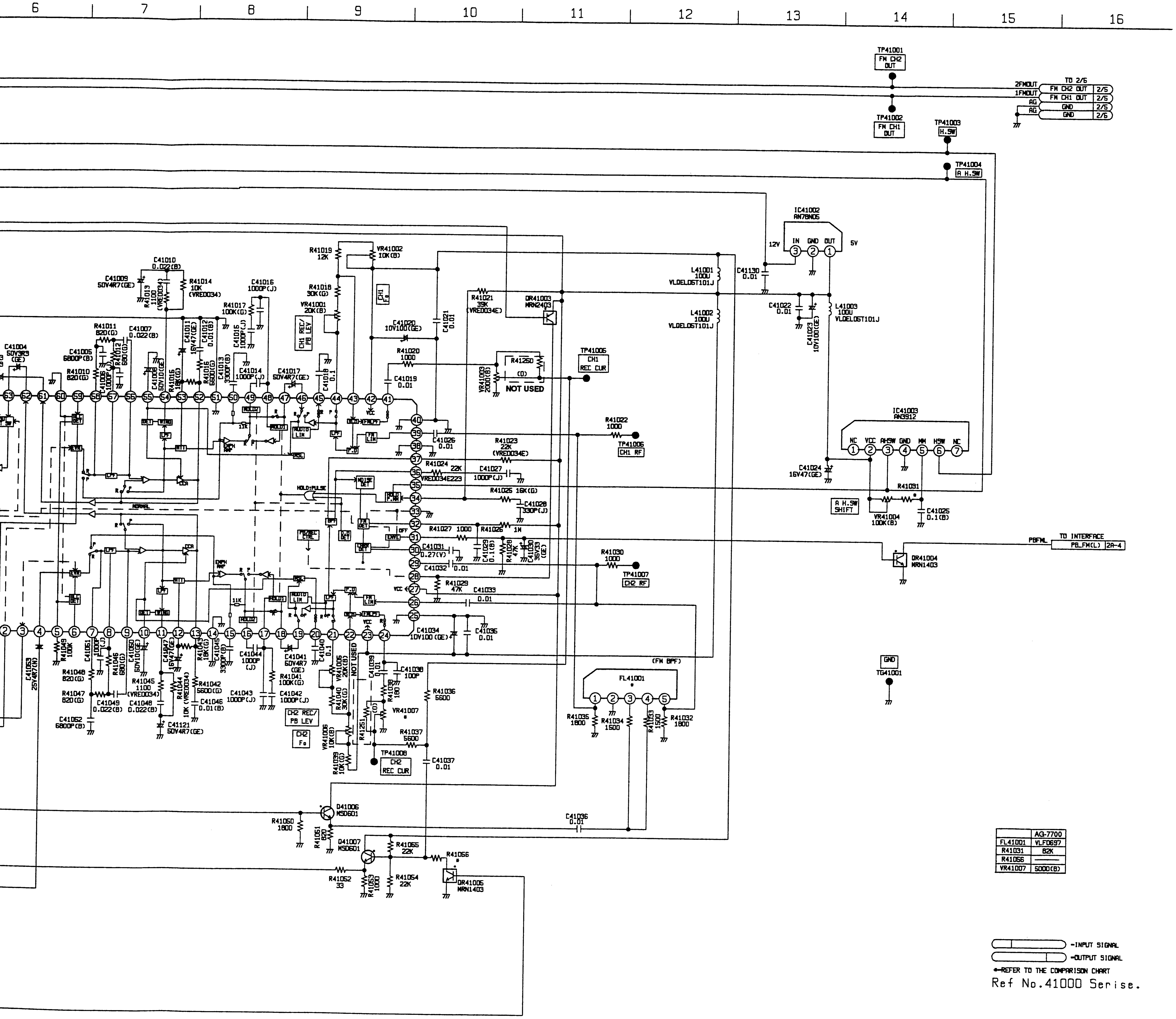

1
2
3
4
5
6
7
8
A
B
C
D
E
Q41016
2SD602A-TW
R41122
390
+C41092
16V47(GE)
C41093
50V10(GE)
D41014
MA3068
FROM 2/5
2/5 AA12V
2/5 AA_GND
2/5 MUT(H)
2/5 CH1_MAIN
2/5 CH2_NAIN
2/5 A_GND
2/5 A_REG-6V
+12V
AG
POWMUT
CH1MAIN
CH2MAIN
AG
AREG-6V
CH1L
CH2L
TO 2/5
CH1(L) 2/5
CH2(L) 2/5
IC41014
MC14053BF
16
11
14
13
12
7
8
6
15
1
2
10
IC41014
MC14053BF
R41123
4700
R41124
12K
FROM FRONT
2A-19 CH1(L)
2A-20 CH2(L)
CH1L
CH2L
C41094
16V47(GE)
8
7
5
6
4
R41128
47
IC41015
UPC4556G
Q41017
2SD1306
R41125
4700
R41126
12K
FROM 5/5
5/5 AAA12V
5/5 A-12
AAA12V
A-12V
R41127
47
R41129
560
R41130
1000
R41131
10K
TO FRONT JACK
PHONE1
PHONE2
AG
CH1_PHONE 2A-21
CH2_PHONE 2A-23
PHONE_GND 2A-22
C41095
16V47(GE)
1
3
2
IC41015
UPC4556G
Q41018
2SD1306
R41133
47
R41132
47
R41134
560
R41135
1000
R41136
10K
IC41014
MC14053BF
4
3
5
9
-INPUT SIGNAL
-OUTPUT SIGNAL
Ref No.41000 Series.

AUDIO (2) PHONE OUT DC VOLTAGE CHART

REF. NO. \ MODE	IC41014									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	0	0	0	−6.3	0	0	6.3
REC	0	0	0	0	0	0	−6.3	0	0	6.3
REF. NO.	IC41014									
MODE	11	12	13	14	15	16				
STOP	6.3	0	0	0	0	6.3				
REC	6.3	0	0	0	0	6.3				
REF. NO.	IC41015									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−6.3	0	0	0	6.3		
REC	0	0	0	−6.3	0	0	0	6.3		
REF. NO.	Q41016			Q41017			Q41018			
MODE	E	C	B	E	C	B	E	C	B	
STOP	6.3	11.6	6.9	0	0	0	0	0	0	
REC	6.3	11.5	6.9	0	0	0	0	0	0	

(2) FM AUDIO (AG-7700) SCHEMATIC DIAGRAM 1/5 (E8: Page CBA-10)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
FROM SERVO/SYSCON
2B-4 V_HSW
VHSW
FROM SERVO/SYSCON
2B-6 H_SW
HSW
NOT USED
R41231 27K
J41006
R41225
FROM AUDIO(2/3)
2B-11 TRIC(L)
2B-6 FM_DREC(L)
2B-8 FM_MUT(L)
2B-7 FM_EE(L)
2B-9 FM_REC(L)
TRICL
FMDRPL
FMMUTL
FMEEL
FMRPL
QR41001
R41001 5600
R41002 5600
Q41001 2SB709A
C41001 16V470 (GE)
D41016 MA151K
R41229 10K
QR41012 MRN1402
QR41002 MRN2403
R41230 680
P41001
TO HEAD AMP 1
1 HIFI_DREC(L)
2 TRIC(H)
3 REC_12V
4 FM_REC_IN
5 GND
6 FM_RF_OUT
7 5V
8 GND
9 FM_HEAD_SW
10
C41002 0.01
IC41001 BA7705K1
Q41002 2SD1306
Q41003 2SD1306
R41003 1000
R41004 1000
R41009 330
R41008 330
D41015 MA151K
C41055 50V10 (GE)
C41056 50V10 (GE)
R41005 47K
R41006 47K
R41007 2R2M
C41057 16V47 (GE)
FROM 2/5
2/5 +12V
2/5 AGND
+12V
AG
C41058 50V22 (GE)
C41059 16V47 (GE)
C41060 10V100 (GE)
C41061 0.01
R41059 8200
Q41004 2SC636-R5
Q41005 XN1501
R41058 2200
R41057 3300
C41054 25V4R7 (N)
C41053 25V4R7 (N)
C41063 50V1 (GE)
CH1 EE
VR41008 2000(B)(32)
C41064 50V1 (GE)
C41062 10V100 (GE)
VR41009 2000(B)(32)
CH2 EE
FROM FRONT
2A-7 HIFI_CH1_VR
2A-8 HIFI_CH2_VR
2A-6 HIFI_VR_REF
2A-5 VR_GND
FM1VR
FM2VR
FMREF
AG
C41009 50V4R7 (GE)
C41010 0.022(B)
R41013 1100 (VRED034)
R41014 10K (VRED034)
C41016 1000P(J)
R41017 100K(G)
C41015 1000P(J)
R41011 820(G)
C41007 0.022(B)
R41012 680(G)
C41005 6800P(B)
R41010 820(G)
C41006 1000P(J)
C41008 50V10 (GE)
R41016 10K(G)
C41011 16V47(GE)
C41012 0.01(B)
R41015 6800(G)
C41013 330P(B)
C41014 1000P(J)
C41017 50V4R7 (GE)
C41003 50V3R3 (GE)
C41004 50V3R3 (GE)
R41019 12K
VR41002 10K(B)
R41018 30K(G)
VR41001 20K(B)
CH1 REC/PB LEV
CH1 Fo
C41018 0.1
C41020 10V100 (GE)
C41021 0.01
R41020 1000
C41019 0.01
R41021 39K (VRED034E)
QR41003 MRN2403
VR41003 2000(B)
R41250 (D)
NOT USED
TP41005 CH1 REC CUR
C41026 0.01
R41022 1000
TP41006 CH1 RF
R41023 22K (VRED034E)
R41024 22K
C41027 1000P(J)
HOLD PULSE
R41025 16K(G)
C41028 330P(J)
R41027 1000
R41026 1M
C41029 0.1(B)
R41028 47K
C41030 35V33 (GE)
C41031 0.27(V)
C41032 0.01
R41030 1000
TP41007 CH2 RF
R41029 47K
C41033 0.01
C41034 10V100 (GE)
C41035 0.01
NORMAL
EXPN AMP
NOISE DET
DET
LPF
BPF
CCR
HOLD
ALC
MUTE
LIM
R41049 100K
C41051 1000P(J)
R41048 820(G)
R41046 680(G)
C41050 50V10(GE)
C41047 16V47(GE)
R41044 10K(G)
C41045 330P(B)
C41044 1000P(J)
R41047 820(G)
C41049 0.022(B)
R41045 1100 (VRED034)
C41048 0.022(B)
R41043 10K (VRED034)
R41042 5600(G)
C41046 0.01(B)
C41043 1000P(J)
C41052 6800P(B)
C41121 50V4R7(GE)
C41041 50V4R7 (GE)
R41041 100K(G)
C41042 1000P(J)
CH2 REC/PB LEV
CH2 Fo
C41040 0.1
VR41005 20K(B)
NOT USED
C41039 0.01
R41040 30K(G)
VR41006 10K(B)
R41039 10K(G)
R41251 (D)
R41038 180
C41038 100P
VR41007
R41036 5600
R41037 5600
TP41008 CH2 REC CUR
C41037 0.01
TP41001 FM CH2 OUT
TP41002 FM CH1 OUT
TP41003 H.SW
TP41004 A H.SW
IC41002 AN78N05
12V
IN
GND
OUT
5V
C41130 0.01
L41001 100U VLOEL05T101J
L41002 100U VLOEL05T101J
C41022 0.01
C41023 10V100(GE)
L41003 100U VLOEL05T101J
IC41003 AN3912
NC
VCC
AHSW
GND
MM
HSW
NC
C41024 16V47(GE)
R41031
C41025 0.1(B)
A H.SW SHIFT
VR41004 100K(B)
QR41004 MRN1403
GND
TG41001
(FM BPF)
FL41001
R41035 1800
R41034 1500
R41033 1500
R41032 1800
Q41006 MSD601
R41050 1800
R41051 820
C41036 0.01
Q41007 MSD601
R41055 22K
R41056
QR41005 MRN1403
R41052 33
R41053 1000
R41054 22K
FROM AUDIO 1(3/3)
2B-14 FM_CH2_IN
2B-13 AA_GND
2B-12 FM_CH1_IN
FM2IN
AG
FM1IN
R41221 2200(G)
R41222 1500(G)
R41223 2200(G)
R41224 1500(G)
FROM SERVO/SYSCON
2B-10 S_CASS(H)
SCASH


6
7
8
9
10
11
12
13
14
15
16
TP41001
FM CH2 OUT
TP41002
FM CH1 OUT
TP41003
H.SW
TP41004
A H.SW
2FMOUT
1FMOUT
AG
TO 2/5
FM CH2 OUT
FM CH1 OUT
GND
2/5
IC41002
AN78N05
12V
IN
GND
OUT
5V
L41001
100U
VLOEL05T101J
L41002
100U
VLOEL05T101J
L41003
100U
VLOEL05T101J
C41130
0.01
C41022
0.01
C41023
10V100(GE)
IC41003
AN3912
NC
VCC
AHSW
GND
MM
HSW
C41024
16V47(GE)
R41031
VR41004
100K(B)
C41025
0.1(B)
A H.SW SHIFT
QR41004
MRN1403
PBFML
TO INTERFACE
PB.FM(L)
2A-4
GND
TG41001
FL41001
(FM BPF)
R41035
1800
R41034
1500
R41033
1500
R41032
1800
C41036
0.01
R41019
12K
VR41002
10K(B)
C41010
0.022(B)
C41009
50V4R7(GE)
R41014
10K
(VREOD34)
C41016
1000P(J)
R41018
30K(G)
VR41001
20K(B)
R41017
100K(G)
R41011
820(G)
C41007
0.022(B)
C41004
50V3R3
(GE)
C41005
6800P(B)
R41010
820(G)
C41014
1000P(J)
C41017
50V4R7(GE)
CH1 REC/PB LEV
CH1 Fo
R41021
39K
(VREOD34E)
QR41003
MRN2403
C41020
10V100(GE)
C41021
0.01
R41020
1000
C41019
0.01
VR41003
2000(B)
R41250
NOT USED
TP41005
CH1 REC CUR
R41022
1000
TP41006
CH1 RF
R41023
22K
(VREOD34E)
R41024
22K
C41026
0.01
C41027
1000P(J)
R41025
16K(G)
C41028
330P(J)
R41027
1000
R41026
1M
C41031
0.27(V)
C41032
0.01
R41029
47K
C41033
0.01
C41034
10V100(GE)
C41035
0.01
R41030
1000
TP41007
CH2 RF
HOLD PULSE
NOISE DET
NORMAL
VCC
C41053
25V4R7(GE)
R41049
100K
R41048
820(G)
R41047
820(G)
C41052
6800P(B)
C41049
0.022(B)
R41045
1100
(VREOD34)
C41048
0.022(B)
C41121
50V4R7(GE)
R41042
5600(D)
C41046
0.01(B)
C41043
1000P(J)
C41044
1000P
(J)
C41041
50V4R7
(GE)
R41041
100K(G)
C41042
1000P(J)
CH2 REC/PB LEV
CH2 Fo
VR41005
20K(B)
NOT USED
R41040
30K(G)
VR41006
10K(B)
R41039
10K(G)
C41038
100P
R41036
5600
VR41007
R41037
5600
TP41008
CH2 REC CUR
C41037
0.01
Q41006
M5D601
R41050
1800
R41051
820
Q41007
M5D601
R41055
22K
R41056
R41052
33
R41053
1000
R41054
22K
QR41005
MRN1403

AUDIO (2) FM AUDIO DC VOLTAGE CHART

REF. NO.	IC41001									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	4.6	4.6	4.6	4.6	0	4.6	4.6	4.6	4.6	0.2
REC	4.6	4.6	4.6	4.6	0	4.6	4.6	4.6	4.6	0.2
REF. NO.	IC41001									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	4.6	4.6	4.6	0	4.6	4.5	4.6	4.6	2.5	0
REC	4.6	4.6	4.6	0	4.6	2.5	4.6	4.6	2.5	0
REF. NO.	IC41001									
MODE	21	22	23	24	25	26	27	28	29	30
STOP	2.5	2.5	5.0	2.6	0	3.2	5.0	5.0	3.0	4.5
REC	2.5	2.5	5.0	2.6	0	3.2	5.0	5.0	3.0	4.5
REF. NO.	IC41001									
MODE	31	32	33	34	35	36	37	38	39	40
STOP	0	4.5	0	0	2.5	2.7	3.4	0	3.2	0
REC	0	4.5	0	0	2.5	2.7	3.4	0	3.2	0
REF. NO.	IC41001									
MODE	41	42	43	44	45	46	47	48	49	50
STOP	2.6	5.0	2.5	2.5	0	2.5	4.6	4.6	4.5	4.6
REC	2.6	5.0	2.5	2.5	0	2.5	4.6	4.6	4.5	4.6
REF. NO.	IC41001									
MODE	51	52	53	54	55	56	57	58	59	60
STOP	0	4.6	4.6	4.6	0.2	4.6	4.6	4.6	4.6	0
REC	0	4.6	4.6	4.6	0.2	4.6	4.6	4.6	4.6	0
REF. NO.	IC41001									
MODE	61	62	63	64	65	66	67	68	69	70
STOP	4.6	4.6	5.9	5.9	0	5.9	0.1	5.9	5.9	0.4
REC	4.6	4.6	5.9	5.9	0	5.9	−0.1	5.9	5.9	0.5
REF. NO.	IC41001									
MODE	71	72	73	74	75	76	77	78	79	80
STOP	5.2	5.3	0	0	0.1	9.0	11.6	9.0	4.6	5.0
REC	5.2	5.3	0	0	0.1	8.9	11.5	9.0	4.6	5.0
REF. NO.	IC41002									
MODE	1	2	3							
STOP	5.0	0	11.6							
REC	5.0	0	11.5							
REF. NO.	IC41003									
MODE	1	2	3	4	5	6	7			
STOP	0	5.0	2.5	0	1.4	2.0	0			
REC	0	5.0	2.5	0	1.4	3.0	0			
REF. NO.	Q41001			Q41002			Q41003			
MODE	E	C	B	E	C	B	E	C	B	
STOP	11.6	0	11.6	0	0	−0.3	0	0	−0.2	
REC	11.6	11.4	10.7	0	0	−0.2	0	0	−0.2	
REF. NO.	Q41004			Q41005						
MODE	E	C	B	1	2	3	4	5		
STOP	5.0	11.6	5.6	11.6	5.6	5.0	4.4	5.0		
REC	4.9	11.5	5.5	11.5	5.5	4.9	4.3	4.9		
REF. NO.	Q41006			Q41007						
MODE	E	C	B	E	C	B				
STOP	1.3	5.0	2.0	1.8	5.0	2.4				
REC	2.4	5.0	3.0	1.8	5.0	2.4				
REF. NO.	QR41002			QR41003			QR41004			
MODE	E	C	B	E	C	B	E	C	B	
STOP	5.0	−0.1	5.2	5.0	5.0	0	0	5.1	0	
REC	5.0	−0.1	5.1	5.0	5.0	0	0	5.1	0	
REF. NO.	QR41005			QR41012						
MODE	E	C	B	E	C	B				
STOP	0	0	2.9	0	0	5.2				
REC	0	0	2.9	0	0	5.1				

	AG-7700
FL41001	VLF0697
R41031	82K
R41056	———
VR41007	5000(B)

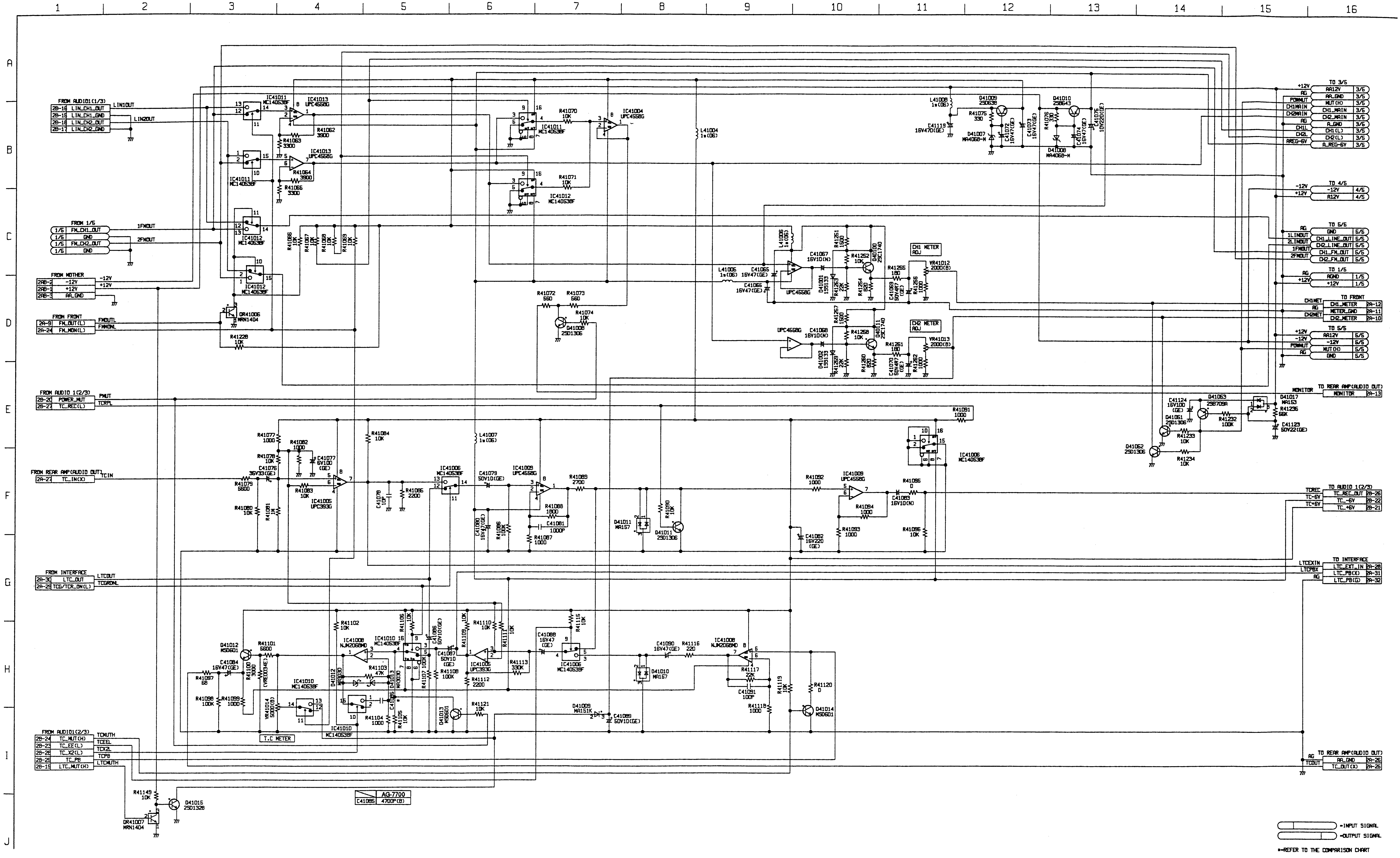
-INPUT SIGNAL

-OUTPUT SIGNAL

*—REFER TO THE COMPARISON CHART

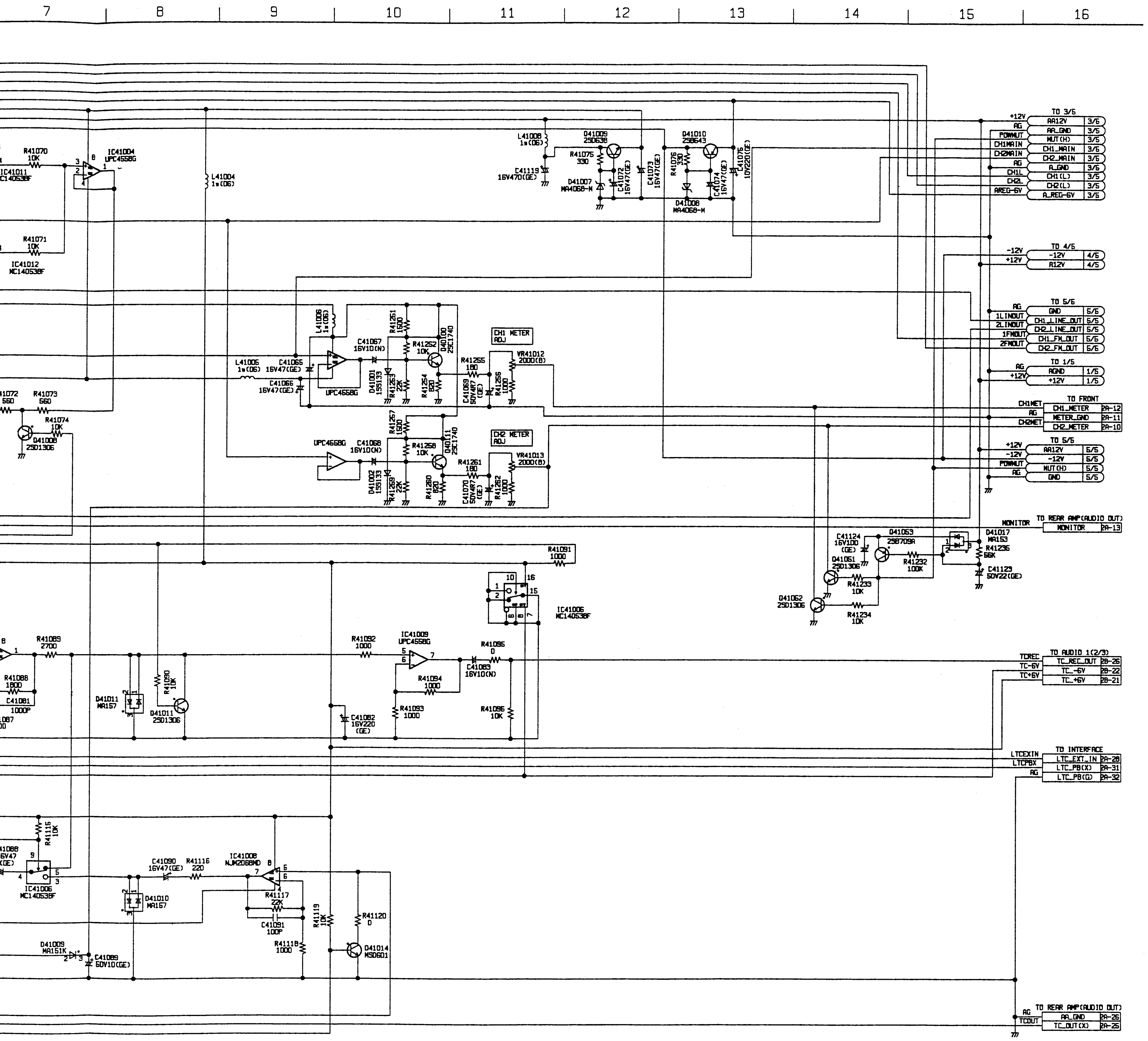
Ref No.41000 Serise.

AUDIO (2) TC (AG-7700) SCHEMATIC DIAGRAM 2/5 (E8: Page CBA-10)


FROM AUDIO1(1/3)
LIN_CH1_OUT
LIN_CH1_GND
LIN_CH2_OUT
LIN_CH2_GND
LIN1OUT
LIN2OUT
FROM 1/5
FM_CH1_OUT
GND
FM_CH2_OUT
1FMOUT
2FMOUT
FROM MOTHER
-12V
+12V
AA_GND
FROM FRONT
FM_OUT(L)
FM_MON(L)
FMOUTL
FMMONL
FROM AUDIO 1(2/3)
POWER_MUT
TC_REC(L)
PMUT
TCRPL
FROM REAR AMP(AUDIO OUT)
TC_IN(X)
TCIN
FROM INTERFACE
LTC_OUT
TCG/TCR_ON(L)
LTCOUT
TCGRONL
FROM AUDIO1(2/3)
TC_MUT(H)
TC_EE(L)
TC_X2(L)
TC_PB
LTC_MUT(H)
TCMUTH
TCEEL
TCX2L
TCPB
LTCMUTH
TO 3/5
AA12V
AA_GND
MUT(H)
CH1_MAIN
CH2_MAIN
A_GND
CH1(L)
CH2(L)
A_REG-6V
TO 4/5
-12V
R12V
TO 6/5
GND
CH1_LINE_OUT
CH2_LINE_OUT
CH1_FM_OUT
CH2_FM_OUT
TO 1/5
AGND
+12V
TO FRONT
CH1_METER
METER_GND
CH2_METER
TO 5/5
TO REAR AMP(AUDIO OUT)
MONITOR
TO AUDIO 1(2/3)
TC_REC_OUT
TC_-6V
TC_+6V
TO INTERFACE
LTC_EXT_IN
LTC_PB(X)
LTC_PB(G)
TO REAR AMP(AUDIO OUT)
AA_GND
TC_OUT(X)
CH1 METER ADJ
CH2 METER ADJ
T.C METER
AG-7700
C41085 4700P(B)
=INPUT SIGNAL
=OUTPUT SIGNAL
*=REFER TO THE COMPARISON CHART

Ref NO.41000 Series.

ge CBA-10)

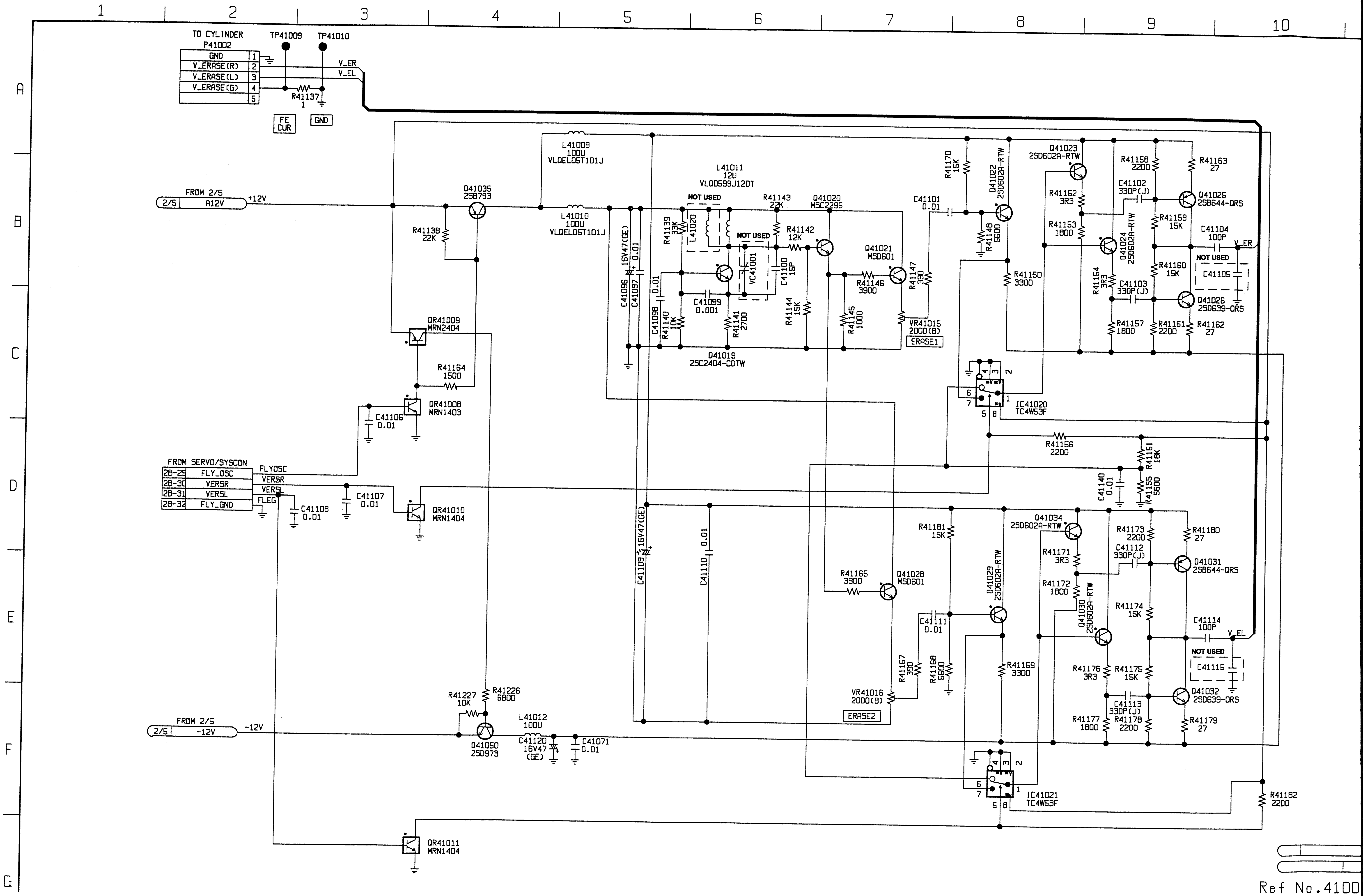

7
8
9
10
11
12
13
14
15
16
R41070 10K
IC41004 UPC4558G
IC41011 MC14053BF
R41071 10K
IC41012 MC14053BF
L41004 1u(06)
L41008 1u(06)
Q41009 2SD636
R41075 330
C41119 16V470(GE)
D41007 MA4068-M
C41072 16V47(GE)
C41073 16V47(GE)
R41076 330
Q41010 2SB643
C41074 16V47(GE)
D41008 MA4068-M
C41076 10V220(GE)
TO 3/5
+12V
AG
PONMUT
CH1MAIN
CH2MAIN
CH1L
CH2L
AREG-6V
AA12V
AA_GND
MUT(H)
CH1_MAIN
CH2_MAIN
A_GND
CH1(L)
CH2(L)
A_REG-6V
TO 4/5
-12V
A12V
TO 5/5
GND
1LINOUT
2LINOUT
1FMOUT
2FMOUT
CH1_LINE_OUT
CH2_LINE_OUT
CH1_FM_OUT
CH2_FM_OUT
TO 1/5
AGND
TO FRONT
CH1MET
CH2MET
CH1_METER
METER_GND
CH2_METER
L41006 1u(06)
C41067 16V10(N)
R41251 1500
R41252 10K
Q41110 2SC1740
CH1 METER ADJ
VR41012 2000(B)
R41255 180
L41005 1u(06)
C41065 16V47(GE)
C41066 16V47(GE)
UPC4558G
D41001 1SS133
R41253 22K
R41254 820
C41069 50V4R7 (GE)
R41256 1000
R41072 560
R41073 560
R41074 10K
Q41008 2SD1306
R41257 1500
R41258 10K
Q41111 2SC1740
CH2 METER ADJ
VR41013 2000(B)
R41261 180
C41068 16V10(N)
D41002 1SS133
R41259 22K
R41260 820
C41070 50V4R7 (GE)
R41262 1000
MONITOR
TO REAR AMP(AUDIO OUT)
C41124 16V100 (GE)
Q41053 2SB709A
D41017 MA153
R41235 56K
Q41051 2SD1306
R41232 100K
C41123 50V22(GE)
R41233 10K
Q41052 2SD1306
R41234 10K
R41091 1000
IC41006 MC14053BF
R41089 2700
R41088 1800
C41081 1000P
D41011 MA157
R41090 10K
Q41011 2SD1306
C41082 16V220 (GE)
R41092 1000
IC41009 UPC4558G
R41094 1000
R41093 1000
R41095 0
C41083 16V10(N)
R41096 10K
TO AUDIO 1(2/3)
TCREC
TC-6V
TC+6V
TC_REC_OUT
TC_-6V
TC_+6V
TO INTERFACE
LTCEXTIN
LTCPBX
LTC_EXT_IN
LTC_PB(X)
LTC_PB(G)
R41115 10K
C41088 16V47 (GE)
IC41006 MC14053BF
C41090 16V47(GE)
R41116 220
IC41008 NJM2068MD
D41010 MA157
R41117 22K
C41091 100P
R41118 1000
R41119 10K
R41120 0
Q41014 MSD601
D41009 MA151K
C41089 50V10(GE)
TO REAR AMP(AUDIO OUT)
TCOUT
AA_GND
TC_OUT(X)
=INPUT SIGNAL
=OUTPUT SIGNAL
*=REFER TO THE COMPARISON CHART

Ref NO.41000 Series.

AUDIO (2) TC DC VOLTAGE CHART

REF. NO.	IC41004									IC41005								
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8	
STOP	0	0	0	−6.3	0.8	0.7	5.8	6.3		0	3.0	2.9	0	3.0	3.0	0	6.0	
REC	0	0	0	−6.3	0.8	0.7	5.8	6.3		0.5	3.0	2.9	0	2.9	3.0	0	5.9	
REF. NO.	IC41006																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	0	0	0	0	0	−6.1	0	0	0	0	0	0	0	0	6.0		
REC	0	0	0	0	0	0	−6.1	0	0	0	0	0.5	0	0	0	5.9		
REF. NO.	IC41007									IC41008								
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8	
STOP	0	0	0	−6.3	0	0	0	6.3		0.1	0	0	−6.1	0	0	0	6.0	
REC	0	0	0	−6.3	0	0	0	6.3		0	0	0	−6.1	0	0	0.1	5.9	
REF. NO.	IC41009																	
MODE	1	2	3	4	5	6	7	8										
STOP	0	0	0	−6.1	0	0	0.1	6.0										
REC	0	0	0	−6.1	0	0	0.2	5.9										
REF. NO.	IC41010																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0.1	0	0	0	0	0	−6.1	0	0	6.0	0	0.1	0	0.1	0.1	6.0		
REC	0	0	0	0	0	0	−6.1	0	0	5.9	0	0	0	0	0	5.9		
REF. NO.	IC41011																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	0	0	0	0	0	−6.3	0	6.3	0	0	0	0	0	0	6.3		
REC	0	0	0	0	0	0	−6.3	0	6.3	0	0	0	0	0	0	6.3		
REF. NO.	IC41012																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	0	0	0	0	0	−6.3	0	6.3	6.3	6.3	0	0	0	0	6.3		
REC	0	0	0	0	0	0	−6.3	0	6.3	6.3	6.3	0	0	0	0	6.3		
REF. NO.	IC41013																	
MODE	1	2	3	4	5	6	7	8										
STOP	0	0	0	−6.3	0	0	0	6.3										
REC	0	0	0	−6.3	0	0	0	6.3										
REF. NO.	Q41008			Q41009			Q41010			Q41011			Q41012			Q41013		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	0	6.3	10.9	6.9	−6.3	−12.2	−7.0	0	0	0.7	−0.6	6.0	0	0	0	0
REC	0	0	0	6.3	10.8	6.9	−6.3	−12.2	−7.0	0	0	0	−0.7	5.9	0	0	0	0
REF. NO.	Q41014			Q41015			Q41051			Q41052			Q41053					
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B			
STOP	0	0	0.7	0	0	0.7	0	0.2	−0.4	0	0.1	−0.3	11.2	−0.2	11.4			
REC	0	0	0.7	0	0	0.7	0	0.2	−0.2	0	0.1	−0.1	11.1	−0.4	11.4			
REF. NO.	QR41006			QR41007														
MODE	E	C	B	E	C	B												
STOP	0	0	5.2	0	0.7	0												
REC	0	0	5.2	0	0.7	0												

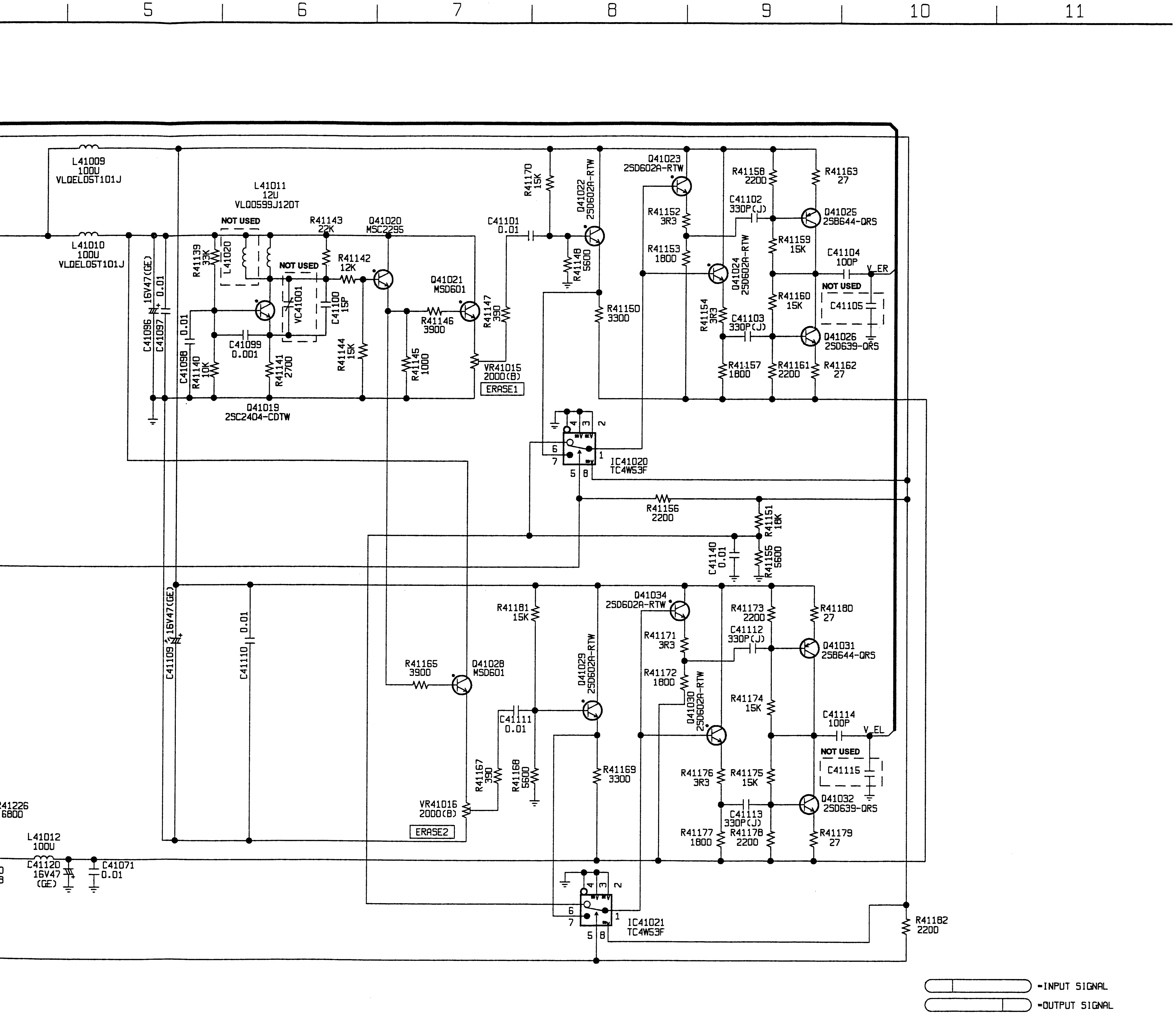
AUDIO (2) FLYING ERASE (AG-7700) SCHEMATIC DIAGRAM 4/5 (E8: Page CBA-10)



1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
TO CYLINDER
P41002
GND 1
V_ERASE(R) 2
V_ERASE(L) 3
V_ERASE(G) 4
5
TP41009
TP41010
V_ER
V_EL
R41137
1
FE CUR
GND
FROM 2/5
2/5
A12V
+12V
Q41035
2SB793
R41138
22K
L41009
100U
VLOEL05T101J
L41010
100U
VLOEL05T101J
L41011
12U
VLO0599J120T
NOT USED
L41020
R41139
33K
NOT USED
VC41001
C41096 16V47(GE)
C41097 0.01
C41098 0.01
R41140 10K
C41099 0.001
R41141 2700
C41100 15P
R41143 22K
Q41020 MSC2295
R41142 12K
R41144 15K
Q41021 MSD601
R41146 3900
R41145 1000
R41147 390
VR41015 2000(B)
ERASE1
Q41019
2SC2404-CDTW
C41101 0.01
R41170 15K
R41148 5600
Q41022 2SD602A-RTW
R41150 3300
Q41023 2SD602A-RTW
R41152 3R3
R41153 1800
R41154 3R3
Q41024 2SD602A-RTW
R41158 2200
C41102 330P(J)
R41159 15K
R41160 15K
C41103 330P(J)
R41157 1800
R41161 2200
R41163 27
Q41025 2SB644-QRS
C41104 100P
V_ER
NOT USED
C41105
Q41026 2SD639-QRS
R41162 27
IC41020 TC4W53F
QR41009
MRN2404
R41164
1500
QR41008
MRN1403
C41106
0.01
FROM SERVO/SYSCON
2B-29 FLY_OSC
2B-30 VERSR
2B-31 VERSL
2B-32 FLY_GND
FLYOSC
VERSR
VERSL
FLEG
C41108
0.01
C41107
0.01
QR41010
MRN1404
R41156 2200
R41151 18K
C41140 0.01
R41155 5600
C41109 16V47(GE)
C41110 0.01
R41181 15K
R41165 3900
Q41028 MSD601
C41111 0.01
Q41029 2SD602A-RTW
R41167 390
R41168 5600
VR41016 2000(B)
ERASE2
R41169 3300
Q41034 2SD602A-RTW
R41171 3R3
R41172 1800
Q41030 2SD602A-RTW
R41176 3R3
R41177 1800
R41173 2200
C41112 330P(J)
R41174 15K
R41175 15K
C41113 330P(J)
R41178 2200
R41180 27
Q41031 2SB644-QRS
C41114 100P
V_EL
NOT USED
C41115
Q41032 2SD639-QRS
R41179 27
IC41021 TC4W53F
R41182 2200
R41227 10K
R41226 6800
Q41050 2SD973
L41012 100U
C41120 16V47 (GE)
C41071 0.01
FROM 2/5
2/5
-12V
-12V
QR41011
MRN1404

Ref No.4100

AGRAM 4/5 (E8: Page CBA-10)

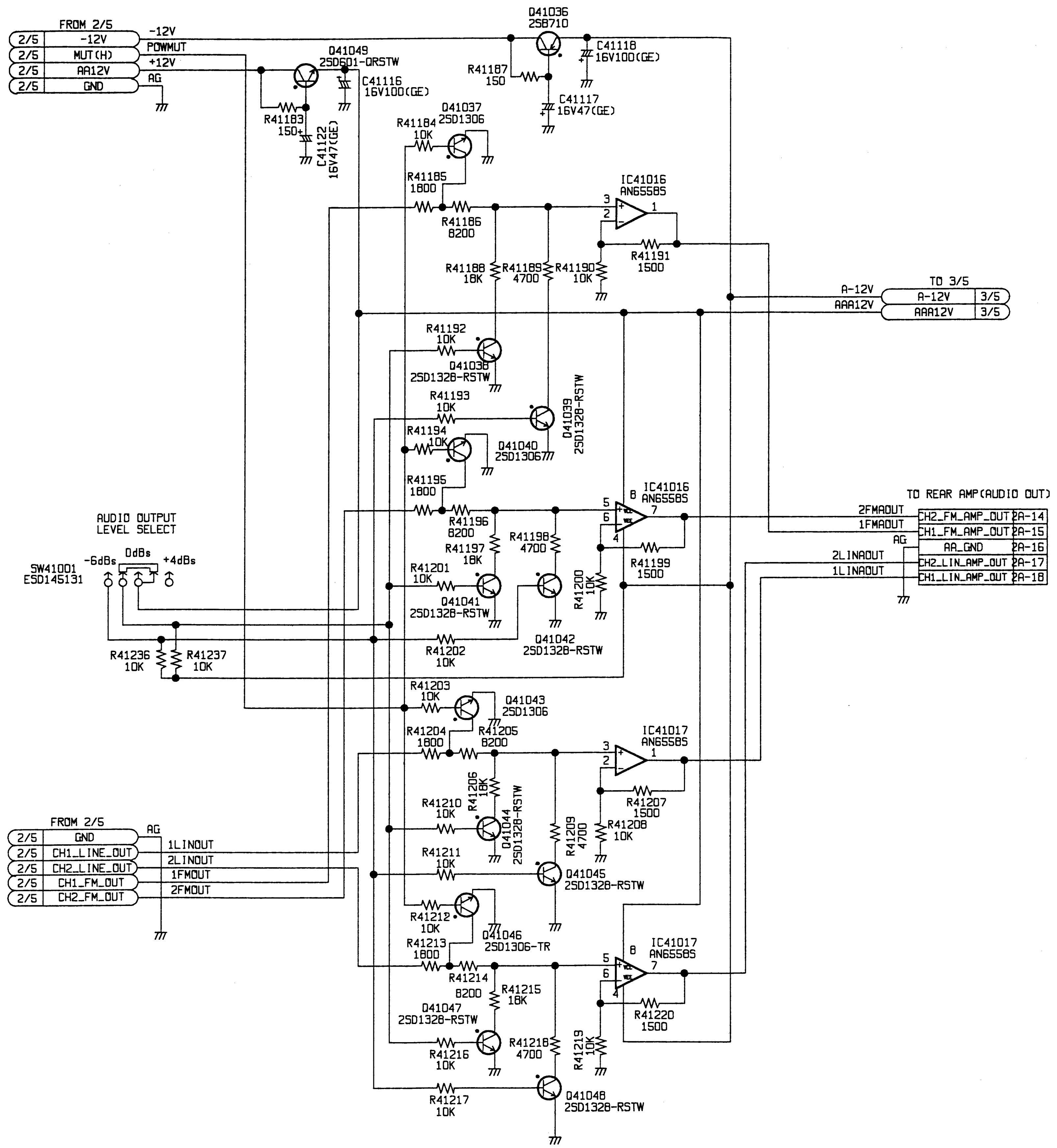

5
6
7
8
9
10
11
L41009
100U
VLQEL05T101J
L41011
12U
VLQ0599J120T
L41010
100U
VLQEL05T101J
NOT USED
L41020
NOT USED
VC41001
R41139
33K
R41143
22K
R41142
12K
Q41020
MSC2295
Q41021
MSD601
R41146
3900
R41147
390
VR41015
2000(B)
ERASE1
C41096 16V47(GE)
C41097 0.01
C41098 0.01
C41099
0.001
C41100
15P
R41140
10K
R41141
2700
R41144
15K
R41145
1000
Q41019
2SC2404-CDTW
C41101
0.01
R41170
15K
R41148
5600
Q41022
2SD602A-RTW
R41150
3300
Q41023
2SD602A-RTW
R41152
3R3
R41153
1800
R41154
3R3
Q41024
2SD602A-RTW
R41158
2200
C41102
330P(J)
C41103
330P(J)
R41157
1800
R41159
15K
R41160
15K
R41161
2200
R41163
27
Q41025
2SB644-QRS
C41104
100P
V_ER
NOT USED
C41105
Q41026
2SD639-QRS
R41162
27
IC41020
TC4W53F
R41156
2200
R41151
18K
C41140
0.01
R41155
5600
C41109 16V47(GE)
C41110 0.01
R41165
3900
Q41028
MSD601
R41181
15K
C41111
0.01
R41167
390
R41168
5600
VR41016
2000(B)
ERASE2
Q41029
2SD602A-RTW
R41169
3300
Q41034
2SD602A-RTW
R41171
3R3
R41172
1800
Q41030
2SD602A-RTW
R41176
3R3
R41177
1800
R41173
2200
C41112
330P(J)
R41174
15K
R41175
15K
C41113
330P(J)
R41178
2200
R41180
27
Q41031
2SB644-QRS
C41114
100P
V_EL
NOT USED
C41115
Q41032
2SD639-QRS
R41179
27
IC41021
TC4W53F
R41182
2200
R41226
6800
L41012
100U
C41120
16V47
(GE)
C41071
0.01
-INPUT SIGNAL
-OUTPUT SIGNAL

Ref No.41000 Series.

AUDIO (2) FLYING ERASE DC VOLTAGE CHART

REF. NO.	Q41020			Q41021			Q41022			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	0	0	0	0	0	0	0	
REC	0	0	0	0	0	0	0	0	0	
REF. NO.	Q41023			Q41024			Q41025			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	0	0	0	0	0	0	0	
REC	0	0	0	0	0	0	0	0	0	
REF. NO.	Q41026			Q41027			Q41028			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	0	0	0	0.8	0	0	0	
REC	0	0	0	0	0	0.3	0	0	0	
REF. NO.	Q41029			Q41030			Q41031			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	0	0	0	0	0	0	0	
REC	0	0	0	0	0	0	0	0	0	
REF. NO.	Q41032			Q41033			Q41034			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	0	0	0	0.8	0	0	0	
REC	0	0	0	0	0	0.3	0	0	0	
REF. NO.	Q41035			Q41050						
MODE	E	C	B	E	C	B				
STOP	11.6	0	11.6	−12.2	0	−12.2				
REC	11.5	0	11.5	−12.2	0	−12.2				
REF. NO.	QR41008			QR41009			QR41010			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	11.6	0	11.6	−12.2	11.6	0	8.2	0	
REC	0	11.5	0	11.5	−12.2	11.5	0	2.8	3.2	
REF. NO.	QR41011			QR41019						
MODE	E	C	B	E	C	B				
STOP	0	8.2	0	0	0	0				
REC	0	2.8	3.2	0	0	0				

AUDIO (2) OUTPUT (AG-7700) SCHEMATIC DIAGRAM 5/5 (E8: Page CBA-10)


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
FROM 2/5
2/5 -12V
2/5 MUT(H)
2/5 AA12V
2/5 GND
-12V
POWMUT
+12V
AG
Q41049
2SD601-QRSTW
C41116
16V100(GE)
R41183
150
C41122
16V47(GE)
Q41036
2SB710
C41118
16V100(GE)
R41187
150
C41117
16V47(GE)
Q41037
2SD1306
R41184
10K
R41185
1800
R41186
8200
IC41016
AN6558S
R41188
18K
R41189
4700
R41190
10K
R41191
1500
A-12V
AAA12V
TO 3/5
A-12V 3/5
AAA12V 3/5
R41192
10K
Q41038
2SD1328-RSTW
R41193
10K
Q41039
2SD1328-RSTW
R41194
10K
Q41040
2SD1306
R41195
1800
R41196
8200
R41197
18K
R41198
4700
IC41016
AN6558S
R41199
1500
R41200
10K
R41201
10K
Q41041
2SD1328-RSTW
Q41042
2SD1328-RSTW
R41202
10K
AUDIO OUTPUT
LEVEL SELECT
SW41001
ESD145131
-6dBs
0dBs
+4dBs
R41236
10K
R41237
10K
TO REAR AMP(AUDIO OUT)
2FMAOUT
1FMAOUT
AG
2LINAOUT
1LINAOUT
CH2_FM_AMP_OUT 2A-14
CH1_FM_AMP_OUT 2A-15
AA_GND 2A-16
CH2_LIN_AMP_OUT 2A-17
CH1_LIN_AMP_OUT 2A-18
R41203
10K
Q41043
2SD1306
R41204
1800
R41205
8200
IC41017
AN6558S
R41206
18K
R41207
1500
R41208
10K
R41209
4700
R41210
10K
Q41044
2SD1328-RSTW
R41211
10K
Q41045
2SD1328-RSTW
FROM 2/5
2/5 GND
2/5 CH1_LINE_OUT
2/5 CH2_LINE_OUT
2/5 CH1_FM_OUT
2/5 CH2_FM_OUT
AG
1LINOUT
2LINOUT
1FMOUT
2FMOUT
R41212
10K
Q41046
2SD1306-TR
R41213
1800
R41214
8200
R41215
18K
IC41017
AN6558S
R41220
1500
Q41047
2SD1328-RSTW
R41216
10K
R41218
4700
R41219
10K
R41217
10K
Q41048
2SD1328-RSTW

P41003

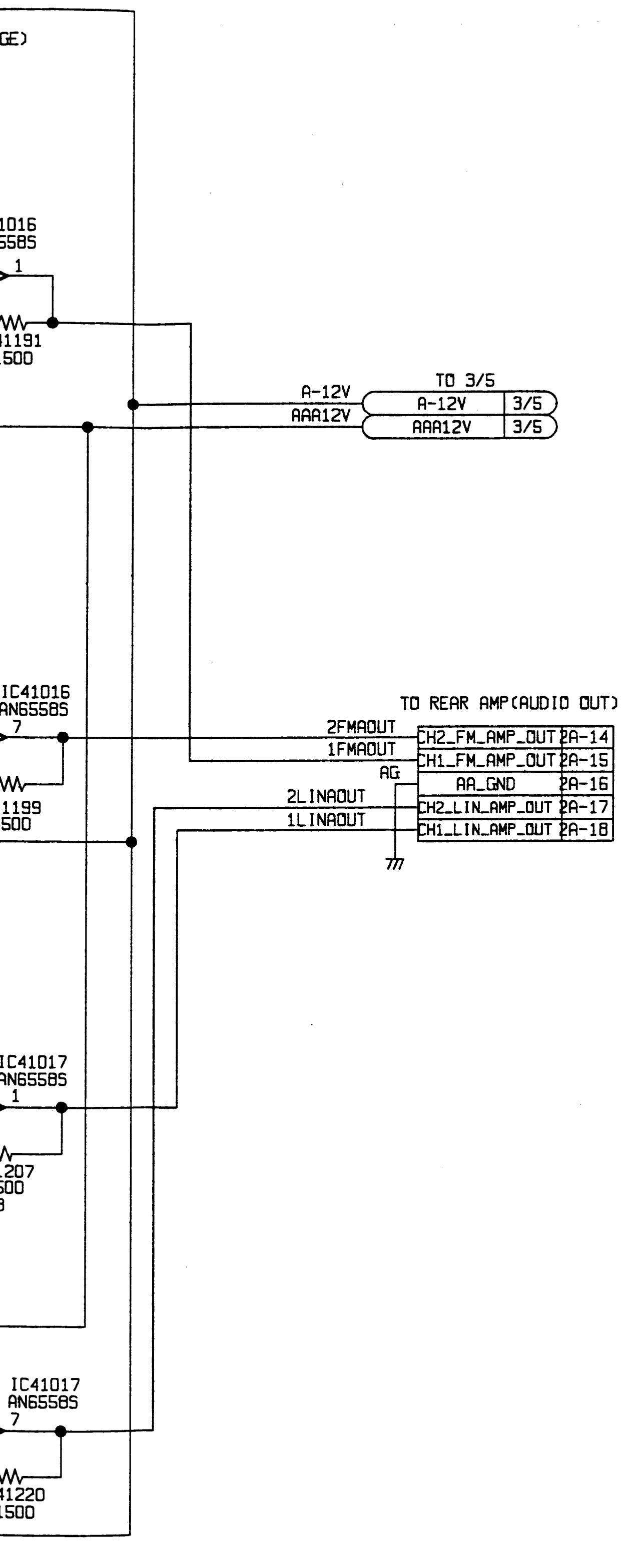
		2 A	No	2 B		
2/5	+12V	AA12V	1	AA12V	+12V	2/5
2/5	-12V	-12V	2	-12V	-12V	2/5
2/5	AG	AA_GND	3	AA_GND	AG	2/5
1/5	PBFML	PB_FM(L)	4	V_HSW	VHSW	1/5
1/5	AG	VR_GND	5	H_SW	HSW	1/5
1/5	FMREF	HIFI_VR_REF	6	FM_DREC(L)	FMDRPL	1/5
1/5	FM1VR	HIFI_CH1_VR	7	FM_EE(L)	FMEEL	1/5
1/5	FM2VR	HIFI_CH2_VR	8	FM_MUT(L)	FMMUTL	1/5
2/5	FMOUTL	FM_OUT(L)	9	FM_REC(L)	FMRPL	1/5
2/5	CH2MET	CH2_METER	10	S_CASS(H)	SCASH	1/5
2/5	AG	METER_GND	11	TRIC(L)	TRICL	1/5
2/5	CH1MET	CH1_METER	12	FM_CH1_IN	FM1IN	1/5
2/5	MONITOR	MONITOR	13	AA_GND	AG	1/5
5/5	2FMAOUT	CH2_FM_AMP_OUT	14	FM_CH2_IN	FM2IN	1/5
5/5	1FMAOUT	CH1_FM_AMP_OUT	15	LIN_CH1_GND	AG	2/5
5/5	AG	AA_GND	16	LIN_CH1_OUT	LIN1OUT	2/5
5/5	2LINAOUT	CH2_LIN_AMP_OUT	17	LIN_CH2_GND	AG	2/5
5/5	1LINAOUT	CH1_LIN_AMP_OUT	18	LIN_CH2_OUT	LIN2OUT	2/5
3/5	CH1L	CH1(L)	19	LTC_MUT(H)	LTCMUTH	2/5
3/5	CH2L	CH2(L)	20	POWER_MUT	PMUT	2/5
3/5	PHONE1	CH1_PHONE	21	TC_+6V	TC+6V	2/5
3/5	AG	PHONE_GND	22	TC_-6V	TC-6V	2/5
3/5	PHONE2	CH2_PHONE	23	TC_EE(L)	TCEEL	2/5
2/5	FMMONL	FM_MON(L)	24	TC_MUT(H)	TCMUTH	2/5
2/5	TCOUT	TC_OUT(X)	25	TC_PB	TCPB	2/5
2/5	AG	AA_GND	26	TC_REC_OUT	TCREC	2/5
2/5	TCIN	TC_IN(X)	27	TC_REC(L)	TCRPL	2/5
2/5	LTCEXIN	LTC_EXT_IN	28	TG_X2(L)	TCX2L	2/5
2/5	TCGRONL	TCG/TCR_ON(L)	29	FLY_OSC	FLYOSC	4/5
2/5	LTCOUT	LTC_OUT	30	VERSR	VERSR	4/5
2/5	LTCPBX	LTC_PB(X)	31	VERSL	VERSL	4/5
2/5	AG	LTC_PB(G)	32	FLY_GND	FLEG	4/5

=INPU
=OUTP

Ref No.41000

/5 (E8: Page CBA-10)

5 6 7 8 9 10 11


GE)
1016
558S
1
1191
500
A-12V
AAA12V
TO 3/5
A-12V 3/5
AAA12V 3/5
IC41016
AN6558S
7
1199
500
TO REAR AMP(AUDIO OUT)
2FMAOUT
1FMAOUT
AG
2LINAOUT
1LINAOUT
CH2_FM_AMP_OUT 2A-14
CH1_FM_AMP_OUT 2A-15
AA_GND 2A-16
CH2_LIN_AMP_OUT 2A-17
CH1_LIN_AMP_OUT 2A-18
IC41017
AN6558S
1
207
500
IC41017
AN6558S
7
41220
1500

P41003

		2 A	No	2 B		
2/5	+12V	AA12V	1	AA12V	+12V	2/5
2/5	-12V	-12V	2	-12V	-12V	2/5
2/5	AG	AA_GND	3	AA_GND	AG	2/5
1/5	PBFML	PB_FM(L)	4	V_HSW	VHSW	1/5
1/5	AG	VR_GND	5	H_SW	HSW	1/5
1/5	FMREF	HIFI_VR_REF	6	FM_DREC(L)	FMDRPL	1/5
1/5	FM1VR	HIFI_CH1_VR	7	FM_EE(L)	FMEEL	1/5
1/5	FM2VR	HIFI_CH2_VR	8	FM_MUT(L)	FMMUTL	1/5
2/5	FMOUTL	FM_OUT(L)	9	FM_REC(L)	FMRPL	1/5
2/5	CH2MET	CH2_METER	10	S_CASS(H)	SCASH	1/5
2/5	AG	METER_GND	11	TRIC(L)	TRICL	1/5
2/5	CH1MET	CH1_METER	12	FM_CH1_IN	FM1IN	1/5
2/5	MONITOR	MONITOR	13	AA_GND	AG	1/5
5/5	2FMAOUT	CH2_FM_AMP_OUT	14	FM_CH2_IN	FM2IN	1/5
5/5	1FMAOUT	CH1_FM_AMP_OUT	15	LIN_CH1_GND	AG	2/5
5/5	AG	AA_GND	16	LIN_CH1_OUT	LIN1OUT	2/5
5/5	2LINAOUT	CH2_LIN_AMP_OUT	17	LIN_CH2_GND	AG	2/5
5/5	1LINAOUT	CH1_LIN_AMP_OUT	18	LIN_CH2_OUT	LIN2OUT	2/5
3/5	CH1L	CH1(L)	19	LTC_MUT(H)	LTCMUTH	2/5
3/5	CH2L	CH2(L)	20	POWER_MUT	PMUT	2/5
3/5	PHONE1	CH1_PHONE	21	TC_+6V	TC+6V	2/5
3/5	AG	PHONE_GND	22	TC_-6V	TC-6V	2/5
3/5	PHONE2	CH2_PHONE	23	TC_EE(L)	TCEEL	2/5
2/5	FMMONL	FM_MON(L)	24	TC_MUT(H)	TCMUTH	2/5
2/5	TCOUT	TC_OUT(X)	25	TC_PB	TCPB	2/5
2/5	AG	AA_GND	26	TC_REC_OUT	TCREC	2/5
2/5	TCIN	TC_IN(X)	27	TC_REC(L)	TCRPL	2/5
2/5	LTCEXIN	LTC_EXT_IN	28	TG_X2(L)	TCX2L	2/5
2/5	TCGRONL	TCG/TCR_ON(L)	29	FLY_OSC	FLYOSC	4/5
2/5	LTCOUT	LTC_OUT	30	VERSR	VERSR	4/5
2/5	LTCPBX	LTC_PB(X)	31	VERSL	VERSL	4/5
2/5	AG	LTC_PB(G)	32	FLY_GND	FLEG	4/5

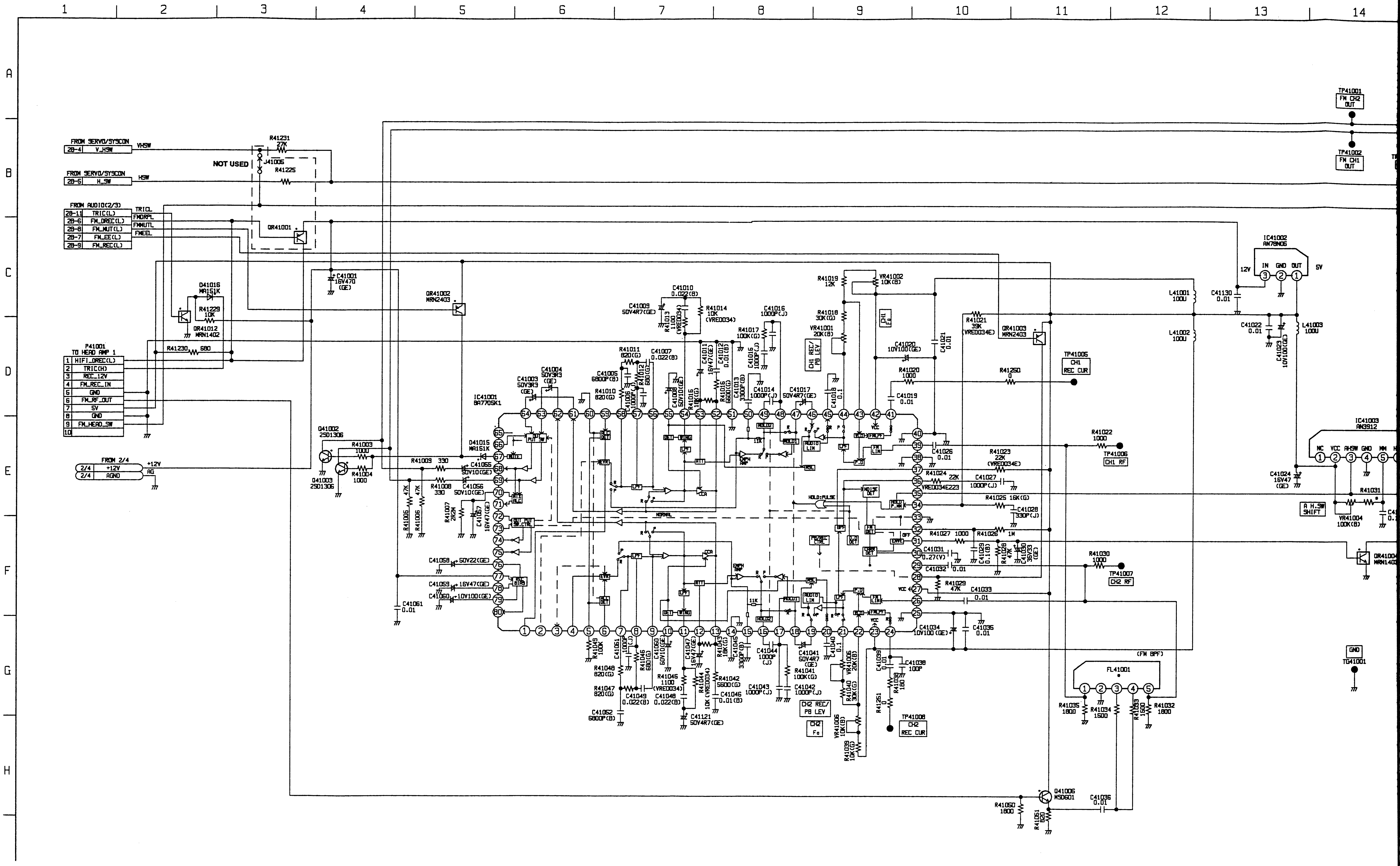
AUDIO (2) OUTPUT DC VOLTAGE CHART

REF. NO.	IC41016									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.5	0	0	0	10.9		
REC	0	0	0	−11.5	0	0	0	10.8		
REF. NO.	IC41017									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.5	0	0	0	10.9		
REC	0	0	0	−11.5	0	0	0	10.8		
REF. NO.	Q41036			Q41037			Q41038			
MODE	E	C	B	E	C	B	E	C	B	
STOP	−11.5	−12.2	−12.2	0	0	−0.2	0	0	0.7	
REC	−11.5	−12.2	−12.2	0	0	−0.2	0	0	0.7	
REF. NO.	Q41039			Q41040			Q41041			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	−11.5	0	0	0	0	0	0.7	
REC	0	0	−11.5	0	0	−0.1	0	0	0.7	
REF. NO.	Q41042			Q41043			Q41044			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	−11.5	0	0	0	0	0	0.7	
REC	0	0	−11.5	0	0	0	0	0	0.7	
REF. NO.	Q41045			Q41046			Q41047			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	−11.5	0	0	−0.2	0	0	0.7	
REC	0	0	−11.5	0	0	0	0	0	0.7	
REF. NO.	Q41048			Q41049						
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	−11.5	10.9	11.6	11.6				
REC	0	0	−11.5	10.8	11.5	11.5				

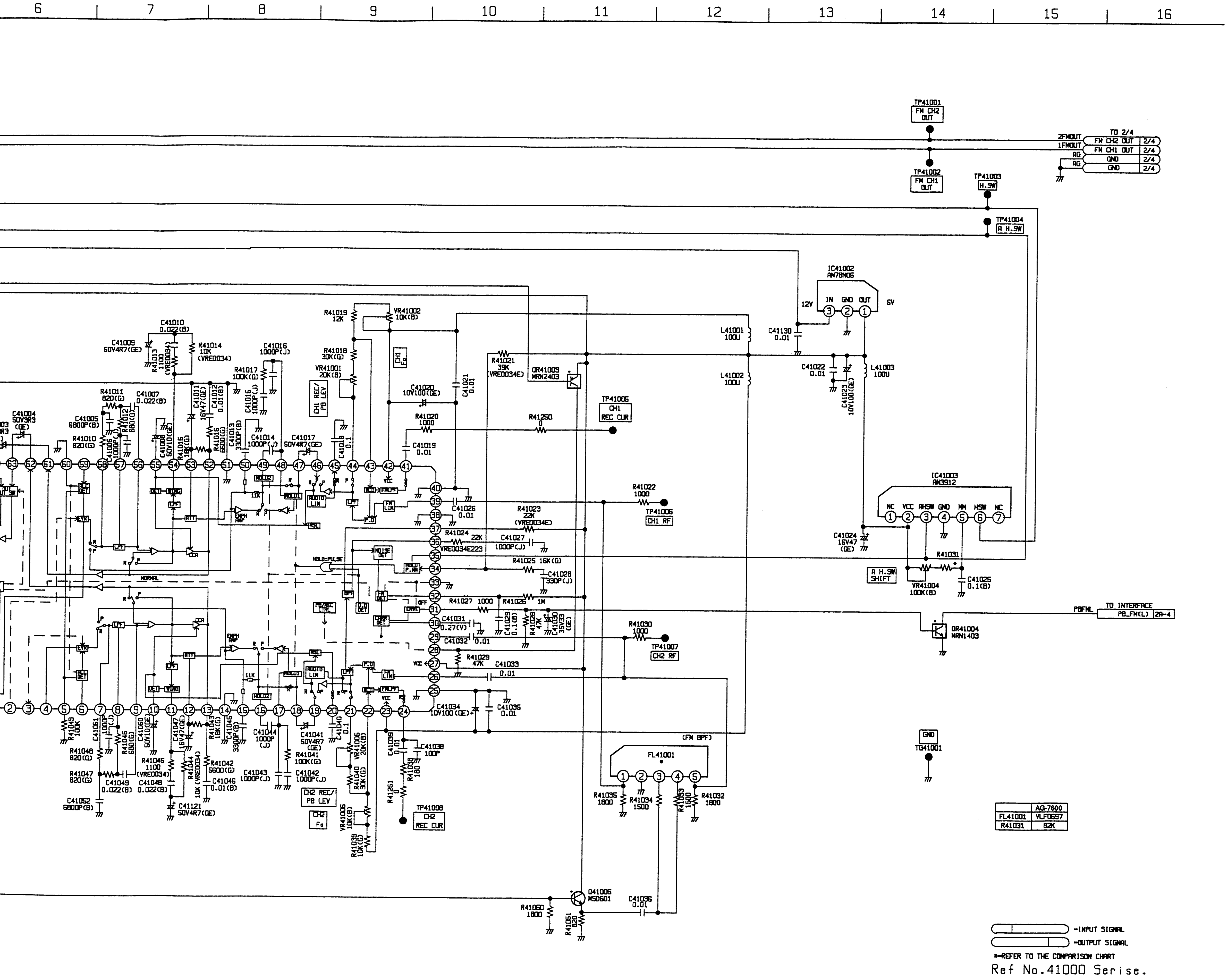
-INPUT SIGNAL
-OUTPUT SIGNAL

Ref No.41000 Series.

AUDIO (2) FM AUDIO (AG-7600) SCHEMATIC DIAGRAM 1/4 (E8: Page CBA-10)


FROM SERVO/SYSCON
2B-4 V_HSW
VHSW
FROM SERVO/SYSCON
2B-6 H_SW
HSW
FROM AUDIO(2/3)
2B-11 TRIC(L)
2B-6 FM_DREC(L)
2B-8 FM_MUT(L)
2B-7 FM_EE(L)
2B-9 FM_REC(L)
TRICL
FMDRPL
FMMUTL
FMEEL
NOT USED
R41231 27K
J41005
R41225
QR41001
C41001 16V470 (GE)
D41016 MA151K
R41229 10K
QR41012 MRN1402
R41230 680
QR41002 MRN2403
P41001
TO HEAD AMP 1
1 HIFI_DREC(L)
2 TRIC(H)
3 REC_12V
4 FM_REC_IN
5 GND
6 FM_RF_OUT
7 5V
8 GND
9 FM_HEAD_SW
10
FROM 2/4
2/4 +12V
2/4 AGND
+12V
AG
Q41002 2SD1306
Q41003 2SD1306
R41003 1000
R41004 1000
D41015 MA151K
R41009 330
R41008 330
C41055 50V10(GE)
C41056 50V10(GE)
R41005 47K
R41006 47K
R41007 2R2M
C41057 16V47(GE)
C41058 50V22(GE)
C41059 16V47(GE)
C41060 10V100(GE)
C41061 0.01
IC41001 BA7705K1
C41003 50V3R3 (GE)
C41004 50V3R3 (GE)
C41005 6800P(B)
R41010 820(G)
R41011 820(G)
C41007 0.022(B)
C41009 50V4R7(GE)
C41010 0.022(B)
R41013 1100 (VRE0034)
R41014 10K (VRE0034)
C41016 1000P(J)
R41017 100K(G)
R41016 680(G)
R41015 18K(G)
C41011 16V47(GE)
C41012 0.01(B)
C41013 3300P(B)
C41014 1000P(J)
C41017 50V4R7(GE)
C41018 0.1
R41019 12K
R41018 30K(G)
VR41001 20K(B)
VR41002 10K(B)
CH1 REC/PB LEV
CH1 Fo
C41020 10V100(GE)
C41021 0.01
R41020 1000
C41019 0.01
R41021 39K (VRE0034E)
QR41003 MRN2403
R41250 0
TP41005 CH1 REC CUR
R41022 1000
TP41006 CH1 RF
C41026 0.01
R41023 22K (VRE0034E)
R41024 22K (VRE0034E223)
C41027 1000P(J)
R41025 15K(G)
C41028 330P(J)
R41027 1000
R41026 1M
C41031 0.27(Y)
C41032 0.01
C41029 0.1(B)
R41028 47K
C41030 50V33 (GE)
R41029 47K
C41033 0.01
R41030 1000
TP41007 CH2 RF
C41034 10V100(GE)
C41035 0.01
HOLD:PULSE
NORMAL
NOISE DET
ENVE
CHARA DET
PB/REC CTRL
AUDIO LIM
HOLD1
HOLD2
DET
BPF
LPF
VCA
ATT
LIM
11K
R41049 100K
C41051 1000P (J)
R41046 680(G)
C41050 50V10(GE)
C41047 16V47(GE)
R41043 18K(G)
C41045 3300P(B)
R41048 820(G)
R41047 820(G)
C41049 0.022(B)
C41048 0.022(B)
R41045 1100 (VRE0034)
R41044 10K (VRE0034)
R41042 5600(G)
C41046 0.01(B)
C41121 50V4R7(GE)
C41052 6800P(B)
C41044 1000P (J)
C41043 1000P(J)
C41041 50V4R7 (GE)
R41041 100K(G)
C41042 1000P(J)
C41040 0.1
VR41005 20K(B)
R41040 30K(G)
VR41006 10K(B)
R41039 10K(G)
CH2 REC/ PB LEV
CH2 Fo
C41039 0.01
R41038 180
C41038 100P
R41251 0
TP41008 CH2 REC CUR
(FM BPF)
FL41001
R41035 1800
R41034 1500
R41033 1500
R41032 1800
Q41006 MSD601
R41050 1800
R41051 820
C41036 0.01
TP41001 FM CH2 OUT
TP41002 FM CH1 OUT
IC41002 AN78N05
IN GND OUT
12V
5V
C41130 0.01
L41001 100U
L41002 100U
C41022 0.01
C41023 10V100(GE)
L41003 100U
IC41003 AN3912
NC VCC AHSW GND
C41024 16V47 (GE)
R41031
A H.SW SHIFT
VR41004 100K(B)
QR41004 MRN1402
GND
TG41001
VCC
1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H

/4 (E8: Page CBA-10)


6
7
8
9
10
11
12
13
14
15
16
TP41001
FM CH2 OUT
TP41002
FM CH1 OUT
TP41003
H.SW
TP41004
A H.SW
2FMOUT
1FMOUT
AG
AG
TO 2/4
FM CH2 OUT 2/4
FM CH1 OUT 2/4
GND 2/4
GND 2/4
IC41002
AN78N05
12V
IN GND OUT
5V
L41001 100U
L41002 100U
L41003 100U
C41130 0.01
C41022 0.01
C41023 10V100(GE)
IC41003
AN3912
NC VCC AHSW GND MM HSW NC
C41024 16V47 (GE)
R41031
VR41004 100K(B)
C41025 0.1(B)
A H.SW SHIFT
QR41004 MRN1403
PBFML
TO INTERFACE PB_FM(L) 2A-4
TP41005 CH1 REC CUR
TP41006 CH1 RF
TP41007 CH2 RF
TP41008 CH2 REC CUR
R41022 1000
R41030 1000
R41250 0
QR41003 MRN2403
R41021 39K (VRE0034E)
VR41002 10K(B)
R41019 12K
R41018 30K(G)
VR41001 20K(B)
CH1 REC/ PB LEV
CH1 Fo
CH2 REC/ PB LEV
CH2 Fo
FL41001
(FM BPF)
R41035 1800
R41034 1500
R41033 1500
R41032 1800
Q41006 MSD601
R41050 1800
R41051 820
C41036 0.01
TG41001
GND

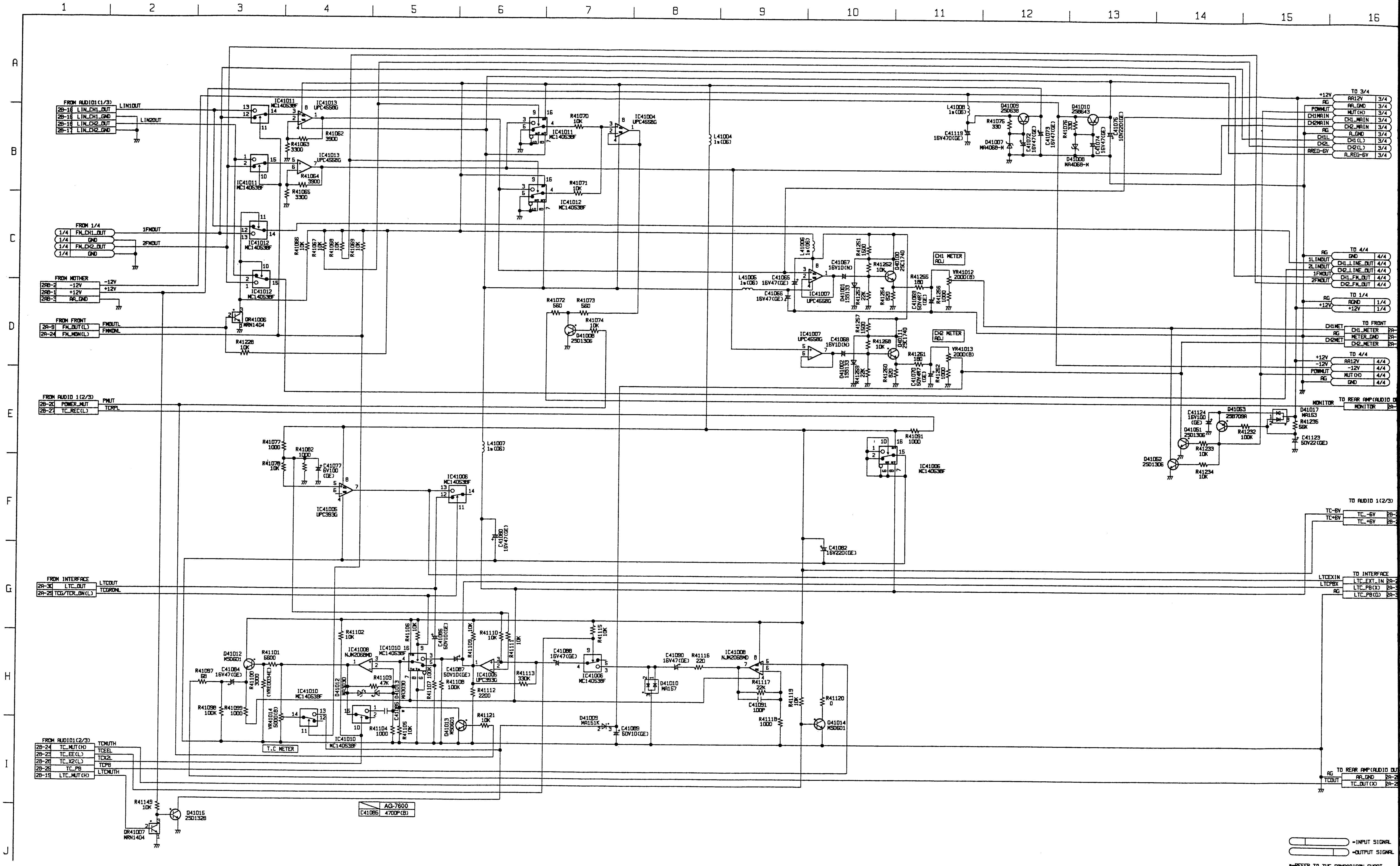
	AG-7600
FL41001	VLF0697
R41031	82K

-INPUT SIGNAL
-OUTPUT SIGNAL
*-REFER TO THE COMPARISON CHART
Ref No.41000 Serise.

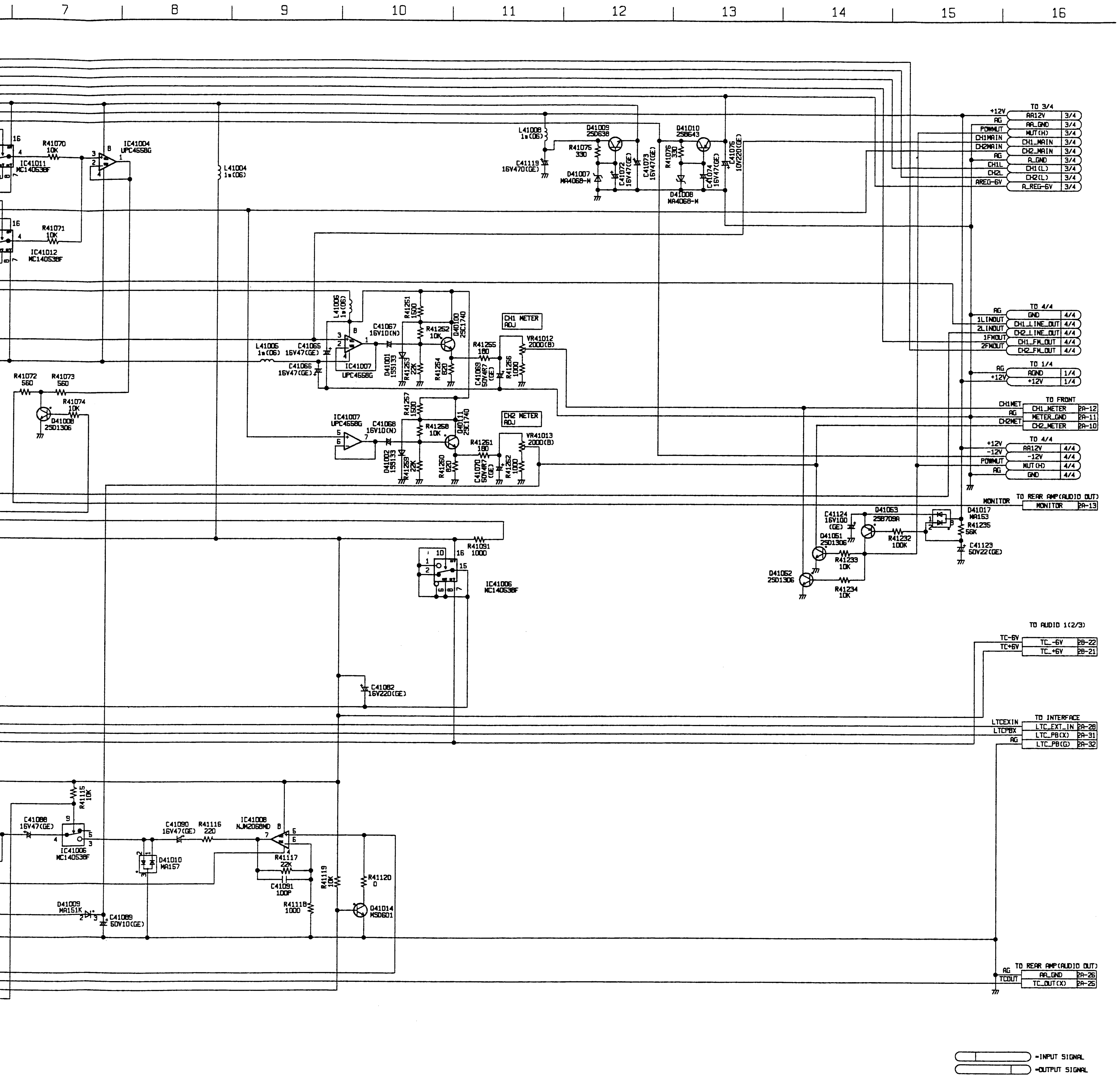
AUDIO (2) FM AUDIO DC VOLTAGE CHART

REF. NO.	IC41001									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	4.6	4.6	4.6	4.6	0	4.6	4.6	4.6	4.6	0.2
REC	4.6	4.6	4.6	4.6	0	4.6	4.6	4.6	4.6	0.2
REF. NO.	IC41001									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	4.6	4.6	4.6	0	4.6	4.5	4.6	4.6	2.5	0
REC	4.6	4.6	4.6	0	4.6	2.5	4.6	4.6	2.5	0
REF. NO.	IC41001									
MODE	21	22	23	24	25	26	27	28	29	30
STOP	2.5	2.5	5.0	2.6	0	3.2	5.0	5.0	3.0	4.5
REC	2.5	2.5	5.0	2.6	0	3.2	5.0	5.0	3.0	4.5
REF. NO.	IC41001									
MODE	31	32	33	34	35	36	37	38	39	40
STOP	0	4.5	0	0	2.5	2.7	3.4	0	3.2	0
REC	0	4.5	0	0	2.5	2.7	3.4	0	3.2	0
REF. NO.	IC41001									
MODE	41	42	43	44	45	46	47	48	49	50
STOP	2.6	5.0	2.5	2.5	0	2.5	4.6	4.6	4.5	4.6
REC	2.6	5.0	2.5	2.5	0	2.5	4.6	4.6	4.5	4.6
REF. NO.	IC41001									
MODE	51	52	53	54	55	56	57	58	59	60
STOP	0	4.6	4.6	4.6	0.2	4.6	4.6	4.6	4.6	0
REC	0	4.6	4.6	4.6	0.2	4.6	4.6	4.6	4.6	0
REF. NO.	IC41001									
MODE	61	62	63	64	65	66	67	68	69	70
STOP	4.6	4.6	5.9	5.9	0	5.9	0.1	5.9	5.9	0.4
REC	4.6	4.6	5.9	5.9	0	5.9	−0.1	5.9	5.9	0.5
REF. NO.	IC41001									
MODE	71	72	73	74	75	76	77	78	79	80
STOP	5.2	5.3	0	0	0.1	9.0	11.6	9.0	4.6	5.0
REC	5.2	5.3	0	0	0.1	8.9	11.5	9.0	4.6	5.0
REF. NO.	IC41002									
MODE	1	2	3							
STOP	5.0	0	11.6							
REC	5.0	0	11.5							
REF. NO.	IC41003									
MODE	1	2	3	4	5	6	7			
STOP	0	5.0	2.5	0	1.4	2.0	0			
REC	0	5.0	2.5	0	1.4	3.0	0			
REF. NO.	Q41001			Q41002			Q41003			
MODE	E	C	B	E	C	B	E	C	B	
STOP	11.6	0	11.6	0	0	−0.3	0	0	−0.2	
REC	11.6	11.4	10.7	0	0	−0.2	0	0	−0.2	
REF. NO.	Q41006			Q41007						
MODE	E	C	B	E	C	B				
STOP	1.3	5.0	2.0	1.8	5.0	2.4				
REC	2.4	5.0	3.0	1.8	5.0	2.4				
REF. NO.	QR41002			QR41003			QR41004			
MODE	E	C	B	E	C	B	E	C	B	
STOP	5.0	−0.1	5.2	5.0	5.0	0	0	5.1	0	
REC	5.0	−0.1	5.1	5.0	5.0	0	0	5.1	0	
REF. NO.	QR41012									
MODE	E	C	B							
STOP	0	0	5.2							
REC	0	0	5.1							

AUDIO (2) TC (AG-7600) SCHEMATIC DIAGRAM 2/4 (E8: Page CBA-10)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
FROM AUDIO1(1/3)
LIN_CH1_OUT
LIN_CH1_GND
LIN_CH2_OUT
LIN_CH2_GND
LIN1OUT
LIN2OUT
FROM 1/4
FM_CH1_OUT
GND
FM_CH2_OUT
1FMOUT
2FMOUT
FROM MOTHER
-12V
+12V
AA_GND
FROM FRONT
FM_OUT(L)
FM_MON(L)
FMOUTL
FMMONL
FROM AUDIO 1(2/3)
POWER_MUT
TC_REC(L)
PMUT
TCRPL
FROM INTERFACE
LTC_OUT
TCG/TCR_ON(L)
LTCOUT
TCGRONL
FROM AUDIO1(2/3)
TC_MUT(H)
TC_EE(L)
TC_X2(L)
TC_PB
LTC_MUT(H)
TCMUTH
TCEEL
TCX2L
TCPB
LTCMUTH
IC41011 MC14053BF
IC41013 UPC4558G
IC41012 MC14053BF
IC41004 UPC4558G
IC41007 UPC4558G
IC41005 UPC393G
IC41006 MC14053BF
IC41008 NJM2068MD
IC41010 MC14053BF
D41009 2SD638
D41010 2SB643
D41007 MA4068-M
D41008 MA4068-M
D41008 2SD1306
DR41006 MRN1404
DR41007 MRN1404
D41015 2SD1328
D41001 1SS133
D41002 1SS133
D41011 2SC1740
D41012 MSD601
D41013 MSD601
D41014 MSD601
D41009 MA151K
D41010 MA157
D41061 2SD1306
D41062 2SD1306
D41063 2SB709A
D41017 MA153
L41004 1m(06)
L41005 1m(06)
L41006 1m(06)
L41007 1m(06)
L41008 1m(06)
CH1 METER ADJ
CH2 METER ADJ
VR41012 2000(B)
VR41013 2000(B)
VR41014 5000(B)
T.C METER
TO 3/4
AA12V
AA_GND
MUT(H)
CH1_MAIN
CH2_MAIN
A_GND
CH1(L)
CH2(L)
A_REG-6V
+12V
AG
POWMUT
CH1MAIN
CH2MAIN
CH1L
CH2L
AREG-6V
TO 4/4
GND
CH1_LINE_OUT
CH2_LINE_OUT
CH1_FM_OUT
CH2_FM_OUT
1LINOUT
2LINOUT
1FMOUT
2FMOUT
TO 1/4
AGND
TO FRONT
CH1_METER
METER_GND
CH2_METER
CH1MET
CH2MET
-12V
MONITOR
TO REAR AMP(AUDIO OUT)
TO AUDIO 1(2/3)
TC_-6V
TC_+6V
TC-6V
TC+6V
TO INTERFACE
LTC_EXT_IN
LTC_PB(X)
LTC_PB(G)
LTCEXIN
LTCPBX
TC_OUT(X)
TCOUT
AG-7600
C41085 4700P(B)
=INPUT SIGNAL
=OUTPUT SIGNAL
*=REFER TO THE COMPARISON CHART

Page CBA-10)

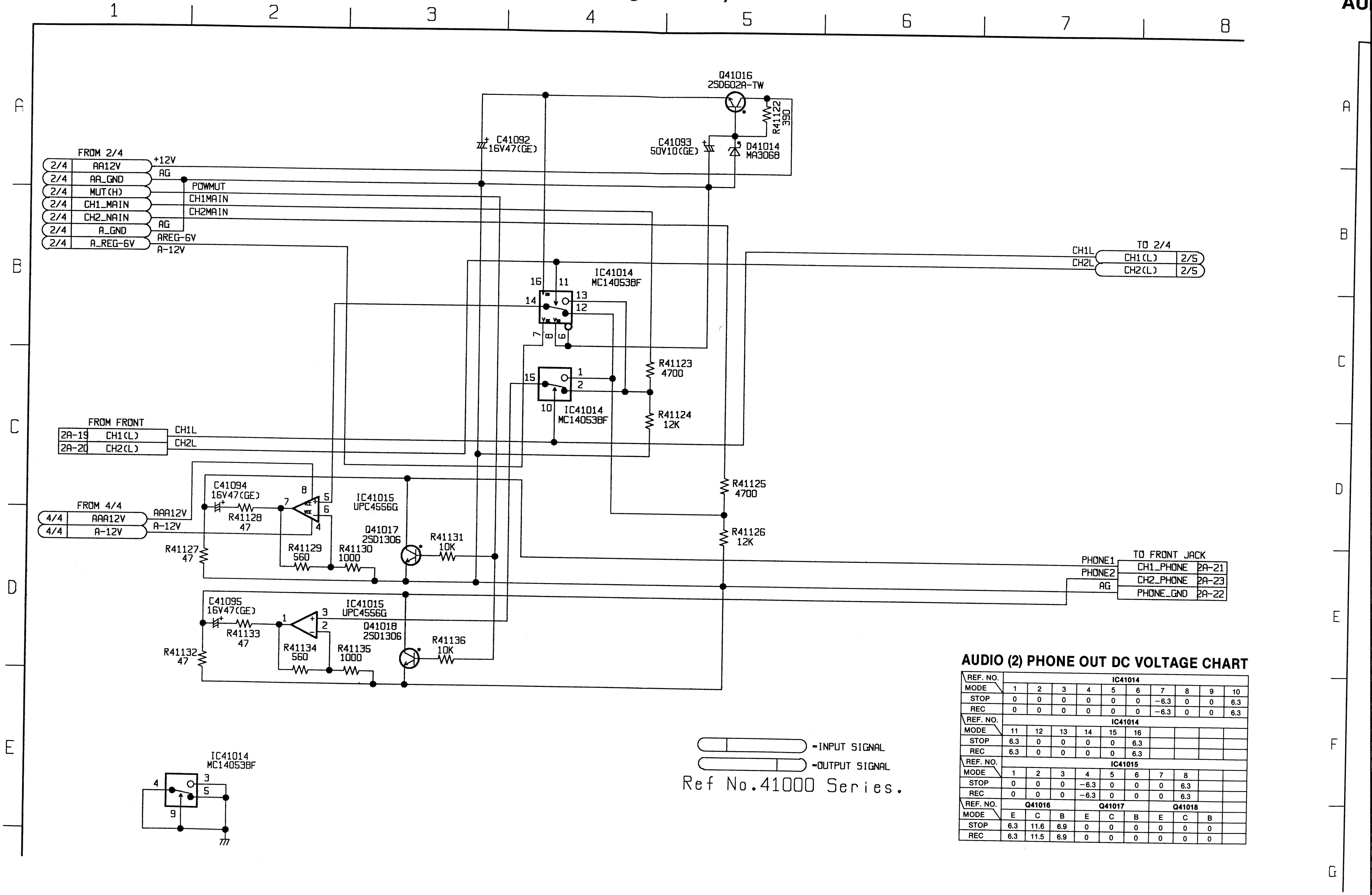

7
8
9
10
11
12
13
14
15
16
R41070 10K
IC41004 UPC4558G
IC41011 MC14053BF
R41071 10K
IC41012 MC14053BF
L41004 1u(06)
L41008 1u(06)
D41009 2SD638
R41075 330
C41119 16V470(GE)
D41007 MA4068-M
C41072 16V47(GE)
C41073 16V47(GE)
D41010 2SB643
R41076 330
C41074 16V47(GE)
C41076 10V220(GE)
D41008 MA4068-M
TO 3/4
+12V
AG
POWMUT
CH1MAIN
CH2MAIN
AG
CH1L
CH2L
AREG-6V
AA12V 3/4
AA_GND 3/4
MUT(H) 3/4
CH1_MAIN 3/4
CH2_MAIN 3/4
A_GND 3/4
CH1(L) 3/4
CH2(L) 3/4
A_REG-6V 3/4
L41006 1u(06)
C41067 16V10(N)
R41251 1500
R41252 10K
D41100 2SC1740
CH1 METER ADJ
R41255 180
VR41012 2000(B)
L41005 1u(06)
C41065 16V47(GE)
C41066 16V47(GE)
IC41007 UPC4558G
D41001 1SS133
R41253 22K
R41254 820
C41069 50V4R7(GE)
R41256 1000
R41072 560
R41073 560
R41074 10K
D41008 2SD1306
IC41007 UPC4558G
C41068 16V10(N)
R41257 1500
R41258 10K
D41011 2SC1740
CH2 METER ADJ
R41261 180
VR41013 2000(B)
D41002 1SS133
R41259 22K
R41260 820
C41070 50V4R7(GE)
R41262 1000
TO 4/4
AG
1LINOUT
2LINOUT
1FMOUT
2FMOUT
GND 4/4
CH1_LINE_OUT 4/4
CH2_LINE_OUT 4/4
CH1_FM_OUT 4/4
CH2_FM_OUT 4/4
TO 1/4
AG
+12V
AGND 1/4
+12V 1/4
TO FRONT
CH1MET
AG
CH2MET
CH1_METER 2A-12
METER_GND 2A-11
CH2_METER 2A-10
TO 4/4
+12V
-12V
POWMUT
AG
AA12V 4/4
-12V 4/4
MUT(H) 4/4
GND 4/4
MONITOR
TO REAR AMP(AUDIO OUT)
MONITOR 2A-13
C41124 16V100(GE)
D41053 2SB709A
D41051 2SD1306
R41232 100K
D41017 MA153
R41235 56K
C41123 50V22(GE)
R41233 10K
D41052 2SD1306
R41234 10K
R41091 1000
IC41006 MC14053BF
TO AUDIO 1(2/3)
TC-6V
TC+6V
TC_-6V 2B-22
TC_+6V 2B-21
C41082 16V220(GE)
TO INTERFACE
LTCEXIN
LTCPBX
AG
LTC_EXT_IN 2A-28
LTC_PB(X) 2A-31
LTC_PB(G) 2A-32
R41115 10K
C41088 16V47(GE)
IC41006 MC14053BF
C41090 16V47(GE)
R41116 220
IC41008 NJM2068MD
D41010 MA157
R41117 22K
C41091 100P
R41118 1000
R41119 10K
R41120 0
D41014 MSD601
D41009 MA151K
C41089 50V10(GE)
TO REAR AMP(AUDIO OUT)
AG
TCOUT
AA_GND 2A-26
TC_OUT(X) 2A-25
=INPUT SIGNAL
=OUTPUT SIGNAL
*=REFER TO THE COMPARISON CHART

Ref NO.41000 Series.

AUDIO (2) TC DC VOLTAGE CHART

REF. NO.	IC41004									IC41005								
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8	
STOP	0	0	0	−6.3	0.8	0.7	5.8	6.3		0	3.0	2.9	0	3.0	3.0	0	6.0	
REC	0	0	0	−6.3	0.8	0.7	5.8	6.3		0.5	3.0	2.9	0	2.9	3.0	0	5.9	
REF. NO.	IC41006																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	0	0	0	0	0	−6.1	0	0	0	0	0	0	0	0	6.0		
REC	0	0	0	0	0	0	−6.1	0	0	0	0	0.5	0	0	0	5.9		
REF. NO.	IC41007									IC41008								
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8	
STOP	0	0	0	−6.3	0	0	0	6.3		0.1	0	0	−6.1	0	0	0	6.0	
REC	0	0	0	−6.3	0	0	0	6.3		0	0	0	−6.1	0	0	0.1	5.9	
REF. NO.	IC41010																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0.1	0	0	0	0	0	−6.1	0	0	6.0	0	0.1	0	0.1	0.1	6.0		
REC	0	0	0	0	0	0	−6.1	0	0	5.9	0	0	0	0	0	5.9		
REF. NO.	IC41011																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	0	0	0	0	0	−6.3	0	6.3	0	0	0	0	0	0	6.3		
REC	0	0	0	0	0	0	−6.3	0	6.3	0	0	0	0	0	0	6.3		
REF. NO.	IC41012																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STOP	0	0	0	0	0	0	−6.3	0	6.3	6.3	6.3	0	0	0	0	6.3		
REC	0	0	0	0	0	0	−6.3	0	6.3	6.3	6.3	0	0	0	0	6.3		
REF. NO.	IC41013																	
MODE	1	2	3	4	5	6	7	8										
STOP	0	0	0	−6.3	0	0	0	6.3										
REC	0	0	0	−6.3	0	0	0	6.3										
REF. NO.	Q41008			Q41009			Q41010			Q41012			Q41013			Q41014		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	0	6.3	10.9	6.9	−6.3	−12.2	−7.0	−0.6	6.0	0	0	0	0	0	0	0.7
REC	0	0	0	6.3	10.8	6.9	−6.3	−12.2	−7.0	−0.7	5.9	0	0	0	0	0	0	0.7
REF. NO.	Q41015			Q41051			Q41052			Q41053								
MODE	E	C	B	E	C	B	E	C	B	E	C	B						
STOP	0	0	0.7	0	0.2	−0.4	0	0.1	−0.3	11.2	−0.2	11.4						
REC	0	0	0.7	0	0.2	−0.2	0	0.1	−0.1	11.1	−0.4	11.4						
REF. NO.	QR41006			QR41007														
MODE	E	C	B	E	C	B												
STOP	0	0	5.2	0	0.7	0												
REC	0	0	5.2	0	0.7	0												

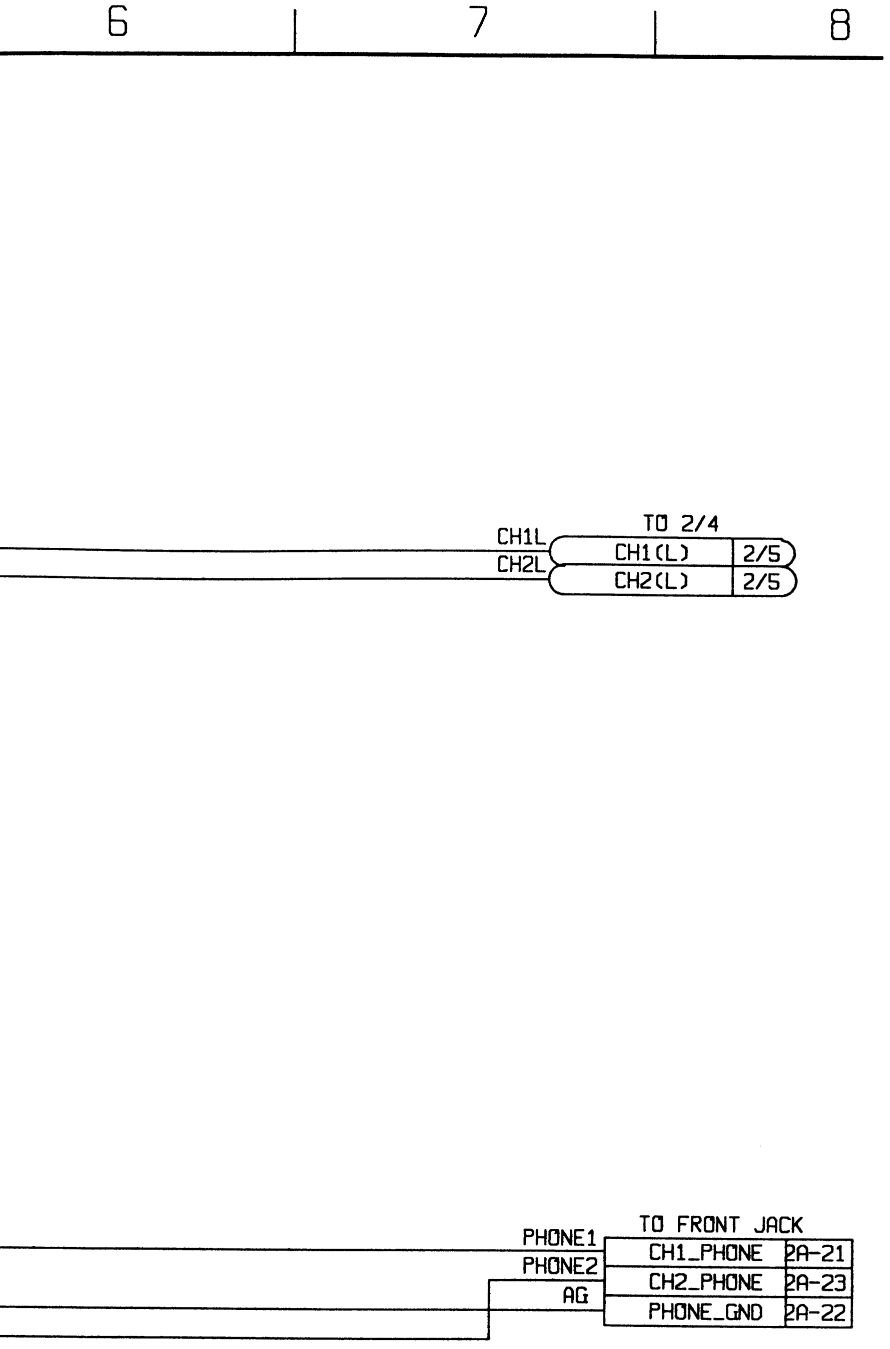
AUDIO (2) PHONE OUT (AG-7600) SCHEMATIC DIAGRAM 3/4 (E8: Page CBA-10)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
FROM 2/4
2/4 AA12V
2/4 AA_GND
2/4 MUT(H)
2/4 CH1_MAIN
2/4 CH2_NAIN
2/4 A_GND
2/4 A_REG-6V
+12V
AG
POWMUT
CH1MAIN
CH2MAIN
AG
AREG-6V
A-12V
C41092
16V47(GE)
Q41016
2SD602A-TW
R41122
390
C41093
50V10(GE)
D41014
MA3068
TO 2/4
CH1L
CH2L
CH1(L) 2/5
CH2(L) 2/5
IC41014
MC14053BF
16
11
14
13
12
7
8
6
15
1
2
10
IC41014
MC14053BF
R41123
4700
R41124
12K
FROM FRONT
2A-19 CH1(L)
2A-20 CH2(L)
CH1L
CH2L
C41094
16V47(GE)
R41128
47
8
7
5
6
4
IC41015
UPC4556G
FROM 4/4
4/4 AAA12V
4/4 A-12V
AAA12V
A-12V
R41127
47
R41129
560
R41130
1000
Q41017
2SD1306
R41131
10K
R41125
4700
R41126
12K
TO FRONT JACK
PHONE1
PHONE2
AG
CH1_PHONE 2A-21
CH2_PHONE 2A-23
PHONE_GND 2A-22
C41095
16V47(GE)
R41133
47
1
3
2
IC41015
UPC4556G
Q41018
2SD1306
R41132
47
R41134
560
R41135
1000
R41136
10K
IC41014
MC14053BF
4
3
5
9
-INPUT SIGNAL
-OUTPUT SIGNAL

Ref No.41000 Series.

AUDIO (2) PHONE OUT DC VOLTAGE CHART

REF. NO. / MODE	IC41014									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	0	0	0	−6.3	0	0	6.3
REC	0	0	0	0	0	0	−6.3	0	0	6.3
REF. NO.	**IC41014**									
MODE	11	12	13	14	15	16				
STOP	6.3	0	0	0	0	6.3				
REC	6.3	0	0	0	0	6.3				
REF. NO.	**IC41015**									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−6.3	0	0	0	6.3		
REC	0	0	0	−6.3	0	0	0	6.3		
REF. NO.	**Q41016**			**Q41017**			**Q41018**			
MODE	E	C	B	E	C	B	E	C	B	
STOP	6.3	11.6	6.9	0	0	0	0	0	0	
REC	6.3	11.5	6.9	0	0	0	0	0	0	


6
7
8
TO 2/4
CH1L
CH2L
CH1(L)
CH2(L)
2/5
2/5
TO FRONT JACK
PHONE1
PHONE2
AG
CH1_PHONE
CH2_PHONE
PHONE_GND
2A-21
2A-23
2A-22

AUDIO (2) PHONE OUT DC VOLTAGE CHART

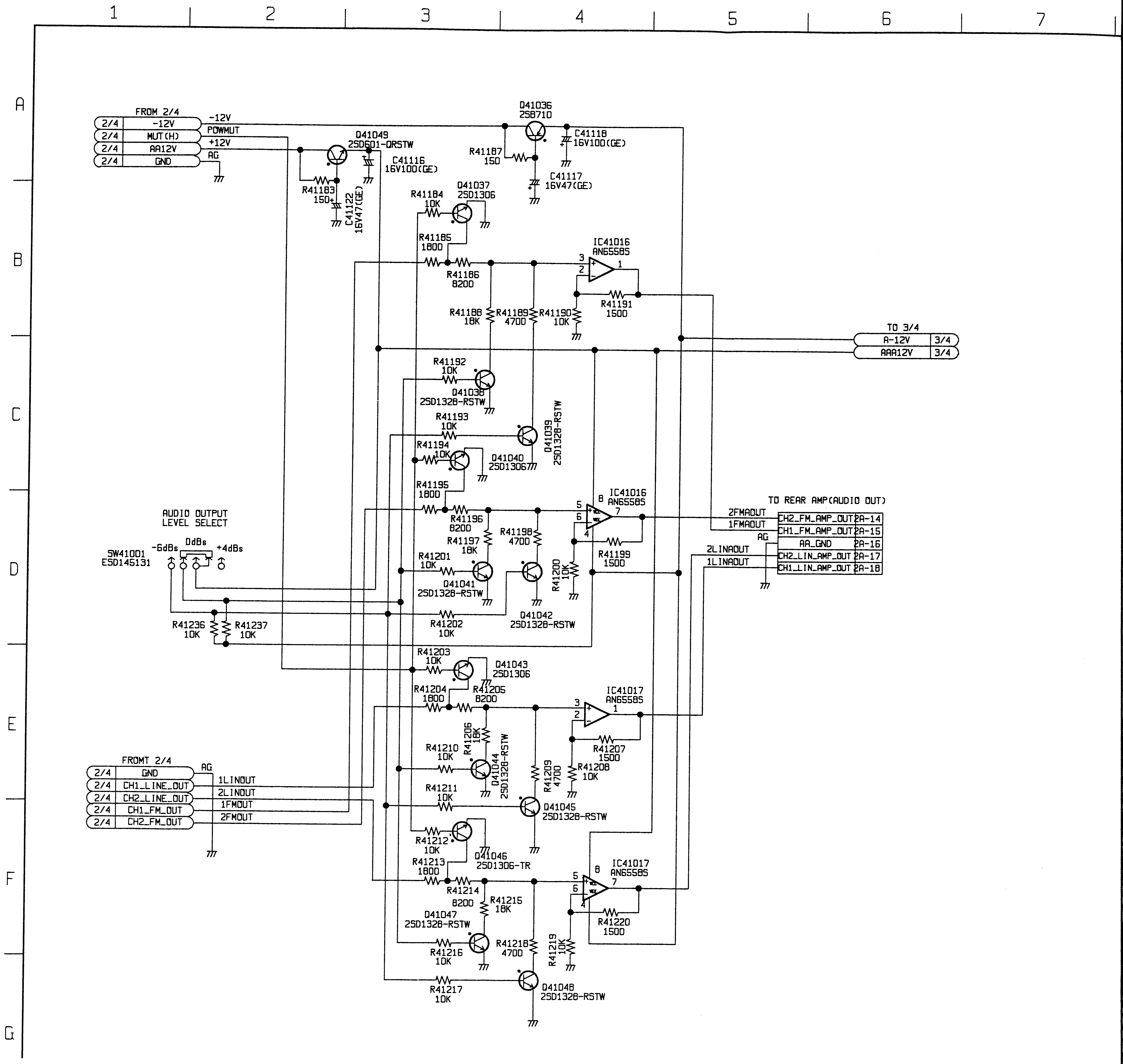
REF. NO. \ MODE	IC41014									
	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0	0	0	0	−6.3	0	0	6.3
REC	0	0	0	0	0	0	−6.3	0	0	6.3
REF. NO. \ MODE	**IC41014**									
	11	12	13	14	15	16				
STOP	6.3	0	0	0	0	6.3				
REC	6.3	0	0	0	0	6.3				
REF. NO. \ MODE	**IC41015**									
	1	2	3	4	5	6	7	8		
STOP	0	0	0	−6.3	0	0	0	6.3		
REC	0	0	0	−6.3	0	0	0	6.3		
REF. NO. \ MODE	**Q41016**			**Q41017**			**Q41018**			
	E	C	B	E	C	B	E	C	B	
STOP	6.3	11.6	6.9	0	0	0	0	0	0	
REC	6.3	11.5	6.9	0	0	0	0	0	0	

SIGNAL

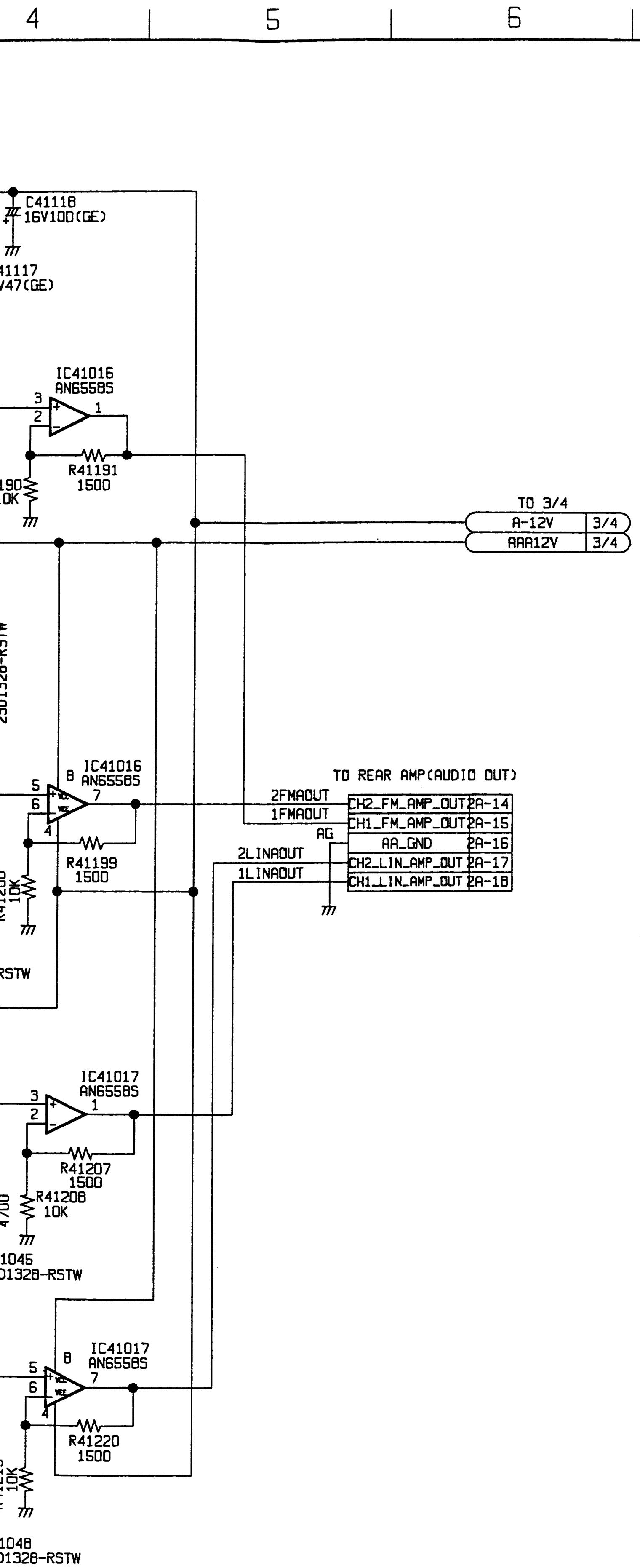
SIGNAL

ries.

AUDIO (2) OUTPUT (AG-7600) SCHEMATIC DIAGRAM 4/4 (E8: Page CBA-10)


1
2
3
4
5
6
7
A
B
C
D
E
F
G
FROM 2/4
2/4
-12V
MUT(H)
AA12V
GND
-12V
POWMUT
+12V
AG
Q41049
2SD601-QRSTW
C41116
16V100(GE)
R41183
150
C41122
16V47(GE)
Q41036
2SB710
R41187
150
C41118
16V100(GE)
C41117
16V47(GE)
R41184
10K
Q41037
2SD1306
R41185
1800
R41186
8200
IC41016
AN6558S
R41188
18K
R41189
4700
R41190
10K
R41191
1500
TO 3/4
A-12V
AAA12V
3/4
R41192
10K
Q41038
2SD1328-RSTW
R41193
10K
Q41039
2SD1328-RSTW
R41194
10K
Q41040
2SD1306
R41195
1800
R41196
8200
R41197
18K
R41198
4700
R41199
1500
R41200
10K
R41201
10K
Q41041
2SD1328-RSTW
Q41042
2SD1328-RSTW
R41202
10K
AUDIO OUTPUT
LEVEL SELECT
SW41001
ESD145131
-6dBs
0dBs
+4dBs
R41236
10K
R41237
10K
TO REAR AMP(AUDIO OUT)
2FMAOUT
1FMAOUT
AG
2LINAOUT
1LINAOUT
CH2_FM_AMP_OUT
CH1_FM_AMP_OUT
AA_GND
CH2_LIN_AMP_OUT
CH1_LIN_AMP_OUT
2A-14
2A-15
2A-16
2A-17
2A-18
R41203
10K
Q41043
2SD1306
R41204
1800
R41205
8200
IC41017
AN6558S
R41206
18K
R41207
1500
R41208
10K
R41209
4700
R41210
10K
Q41044
2SD1328-RSTW
R41211
10K
Q41045
2SD1328-RSTW
R41212
10K
Q41046
2SD1306-TR
R41213
1800
R41214
8200
R41215
18K
Q41047
2SD1328-RSTW
R41216
10K
R41217
10K
R41218
4700
R41219
10K
Q41048
2SD1328-RSTW
R41220
1500
FROMT 2/4
GND
CH1_LINE_OUT
CH2_LINE_OUT
CH1_FM_OUT
CH2_FM_OUT
1LINOUT
2LINOUT
1FMOUT
2FMOUT

AM 4/4 (E8: Page CBA-10)


4
5
6
C41118
16V100(GE)
41117
V47(GE)
IC41016
AN6558S
3
2
1
R41191
1500
190
0K
TO 3/4
A-12V
3/4
AAA12V
3/4
IC41016
AN6558S
8
5
6
7
4
R41199
1500
10K
RSTW
TO REAR AMP(AUDIO OUT)
2FMAOUT
1FMAOUT
AG
2LINAOUT
1LINAOUT
CH2_FM_AMP_OUT
CH1_FM_AMP_OUT
AA_GND
CH2_LIN_AMP_OUT
CH1_LIN_AMP_OUT
2A-14
2A-15
2A-16
2A-17
2A-18
IC41017
AN6558S
3
2
1
R41207
1500
R41208
10K
4700
1045
D1328-RSTW
IC41017
AN6558S
8
5
6
7
4
R41220
1500
10K
1048
D1328-RSTW

7 | 8 | 9 | 10 | 11

P41003

		2 A	No	2 B		
2/5	+12V	AA12V	1	AA12V	+12V	2/5
2/5	-12V	-12V	2	-12V	-12V	2/5
2/5	AG	AA_GND	3	AA_GND	AG	2/5
1/5	PBFML	PB_FM(L)	4	V_HSW	VHSW	1/5
1/5	AG	VR_GND	5	H_SW	HSW	1/5
1/5	FMREF	HIFI_VR_REF	6	FM_DREC(L)	FMDRPL	1/5
1/5	FM1VR	HIFI_CH1_VR	7	FM_EE(L)	FMEEL	1/5
1/5	FM2VR	HIFI_CH2_VR	8	FM_MUT(L)	FMMUTL	1/5
2/5	FMOUTL	FM_OUT(L)	9	FM_REC(L)	FMRPL	1/5
2/5	CH2MET	CH2_METER	10	S_CASS(H)	SCASH	1/5
2/5	AG	METER_GND	11	TRIC(L)	TRICL	1/5
2/5	CH1MET	CH1_METER	12	FM_CH1_IN	FM1IN	1/5
2/5	MONITOR	MONITOR	13	AA_GND	AG	1/5
5/5	2FMAOUT	CH2_FM_AMP_OUT	14	FM_CH2_IN	FM2IN	1/5
5/5	1FMAOUT	CH1_FM_AMP_OUT	15	LIN_CH1_GND	AG	2/5
5/5	AG	AA_GND	16	LIN_CH1_OUT	LIN1OUT	2/5
5/5	2LINAOUT	CH2_LIN_AMP_OUT	17	LIN_CH2_GND	AG	2/5
5/5	1LINAOUT	CH1_LIN_AMP_OUT	18	LIN_CH2_OUT	LIN2OUT	2/5
3/5	CH1L	CH1(L)	19	LTC_MUT(H)	LTCMUTH	2/5
3/5	CH2L	CH2(L)	20	POWER_MUT	PMUT	2/5
3/5	PHONE1	CH1_PHONE	21	TC_+6V	TC+6V	2/5
3/5	AG	PHONE_GND	22	TC_-6V	TC-6V	2/5
3/5	PHONE2	CH2_PHONE	23	TC_EE(L)	TCEEL	2/5
2/5	FMMONL	FM_MON(L)	24	TC_MUT(H)	TCMUTH	2/5
2/5	TCOUT	TC_OUT(X)	25	TC_PB	TCPB	2/5
2/5	AG	AA_GND	26	TC_REC_OUT	TCREC	2/5
2/5	TCIN	TC_IN(X)	27	TC_REC(L)	TCRPL	2/5
2/5	LTCEXIN	LTC_EXT_IN	28	TC_X2(L)	TCX2L	2/5
2/5	TCGRONL	TCG/TCR_ON(L)	29	FLY_OSC	FLYOSC	4/5
2/5	LTCOUT	LTC_OUT	30	VERSR	VERSR	4/5
2/5	LTCPBX	LTC_PB(X)	31	VERSL	VERSL	4/5
2/5	AG	LTC_PB(G)	32	FLY_GND	FLEG	4/5

AUDIO (2) OUTPUT DC VOLTAGE CHART

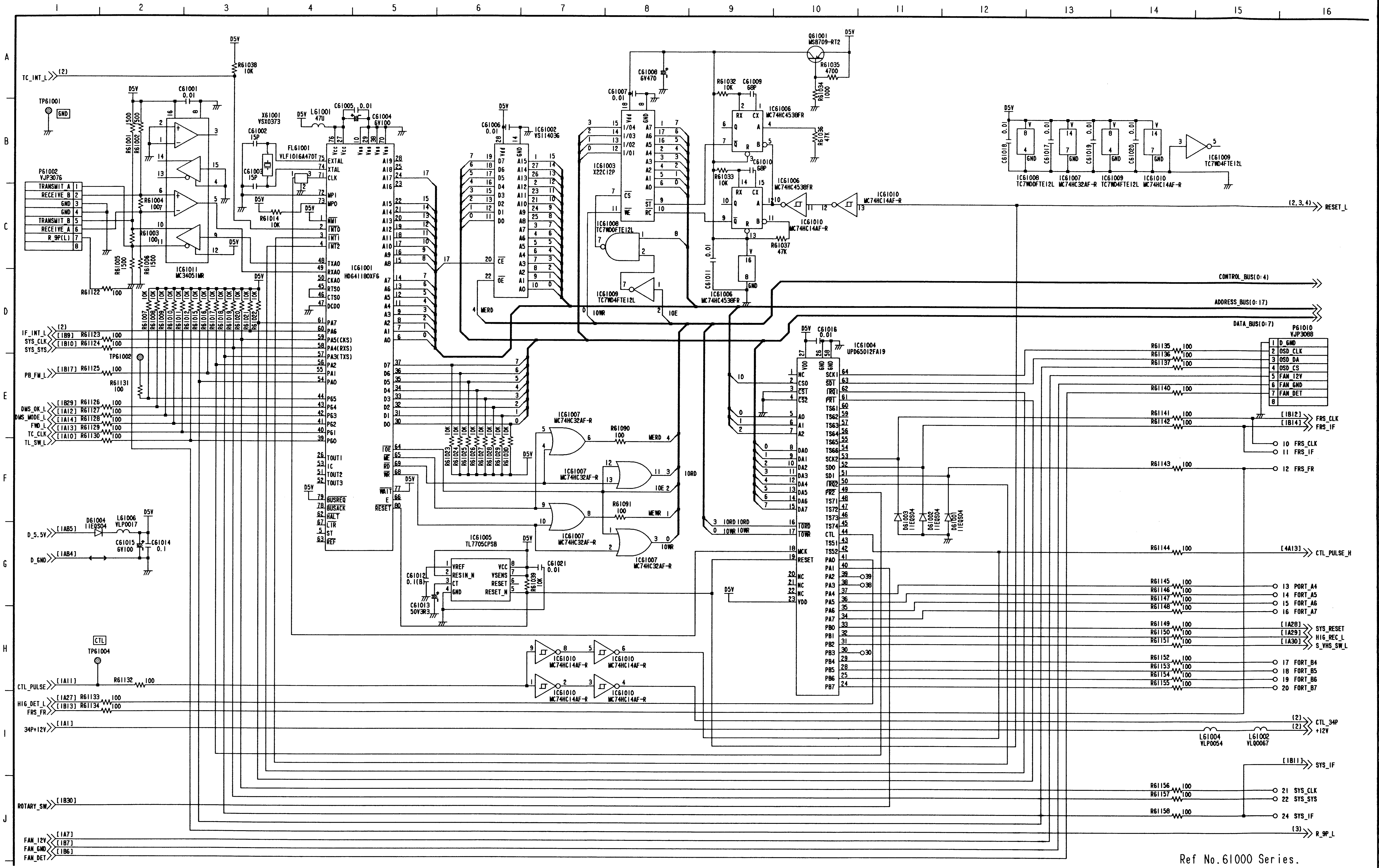
REF. NO.	IC41016									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.5	0	0	0	10.9		
REC	0	0	0	−11.5	0	0	0	10.8		
REF. NO.	IC41017									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.5	0	0	0	10.9		
REC	0	0	0	−11.5	0	0	0	10.8		
REF. NO.	Q41036			Q41037			Q41038			
MODE	E	C	B	E	C	B	E	C	B	
STOP	−11.5	−12.2	−12.2	0	0	−0.2	0	0	0.7	
REC	−11.5	−12.2	−12.2	0	0	−0.2	0	0	0.7	
REF. NO.	Q41039			Q41040			Q41041			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	−11.5	0	0	0	0	0	0.7	
REC	0	0	−11.5	0	0	−0.1	0	0	0.7	
REF. NO.	Q41042			Q41043			Q41044			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	−11.5	0	0	0	0	0	0.7	
REC	0	0	−11.5	0	0	0	0	0	0.7	
REF. NO.	Q41045			Q41046			Q41047			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	−11.5	0	0	−0.2	0	0	0.7	
REC	0	0	−11.5	0	0	0	0	0	0.7	
REF. NO.	Q41048			Q41049						
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	−11.5	10.9	11.6	11.6				
REC	0	0	−11.5	10.8	11.5	11.5				

=INPUT SIGNAL

=OUTPUT SIGNAL

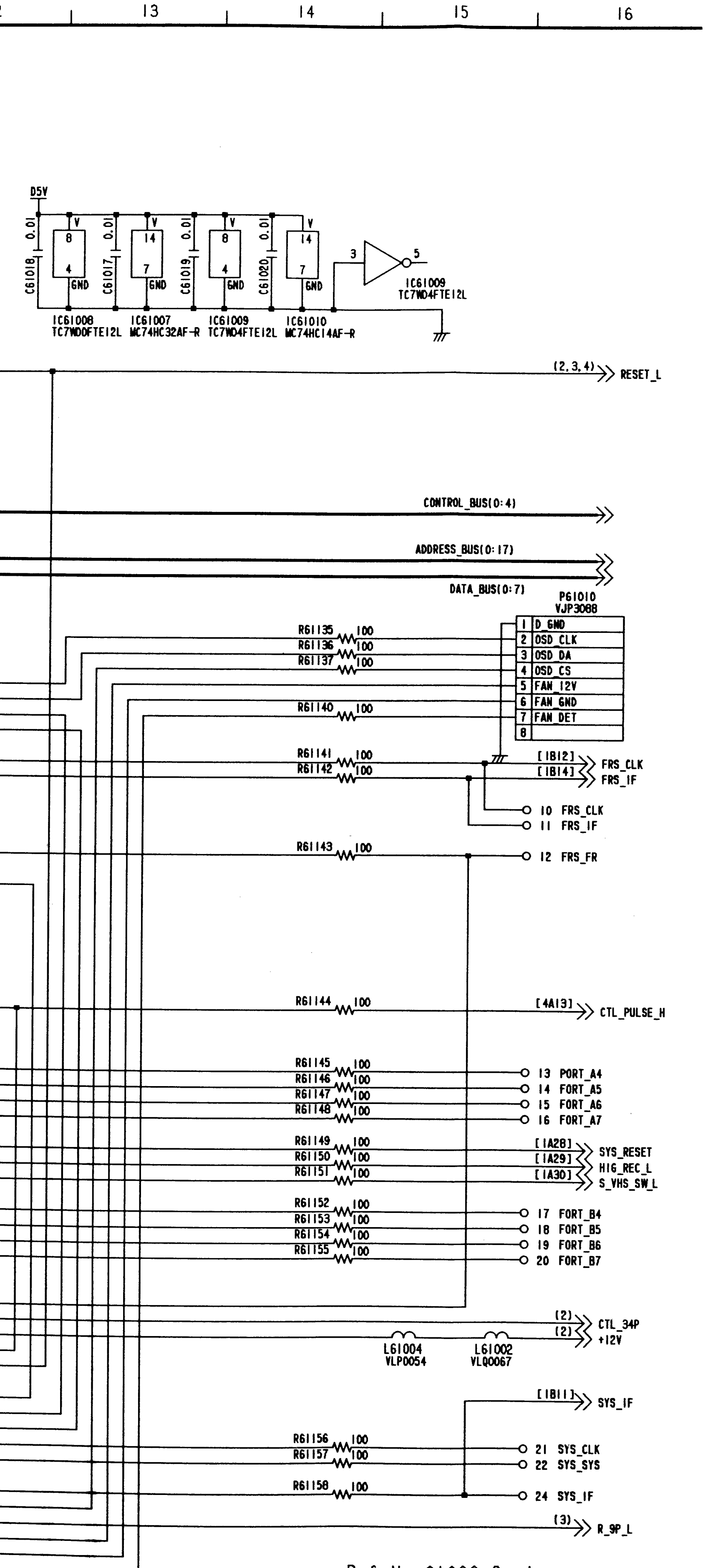
Ref No.41000 Series.

INTERFACE-1 SCHEMATIC DIAGRAM 1/6 (E9: Page CBA-11)



TC_INT_L
TP61001
GND
P61002
VJP3076
TRANSMIT_A
RECEIVE_B
GND
GND
TRANSMIT_B
RECEIVE_A
R_9P(L)
R61038
10K
C61001
0.01
IC61011
MC3405IMR
R61004
R61003
R61005
R61006
R61122
X61001
VSX0373
L61001
47U
C61002
15P
C61003
15P
FL61001
VLF1016A470T
C61005
0.01
C61004
6V100
R61014
10K
IC61001
HD64118OXF6
IC61006
0.01
IC61002
VSI14036
C61007
0.01
C61008
6V470
IC61003
X22C12P
IC61008
TC7WOOFTE12L
IC61009
TC7W04FTE12L
IORD
IOWR
IOE
MERD
R61032
10K
C61009
68P
IC61006
MC74HC4538FR
C61010
68P
R61033
10K
R61036
47K
R61037
47K
C61011
0.01
Q61001
MSB709-RT2
R61035
4700
R61034
1000
IC61010
MC74HC14AF-R
RESET_L
IC61007
MC74HC32AF-R
IC61009
TC7W04FTE12L
C61018
C61017
C61019
C61020
CONTROL_BUS(0:4)
ADDRESS_BUS(0:17)
DATA_BUS(0:7)
IF_INT_L
SYS_CLK
SYS_SYS
TP61002
PB_FM_L
R61131
100
DMS_OK_L
DMS_MODE_L
FWD_L
TC_CLK
TL_SW_L
R61123
R61124
R61125
R61126
R61127
R61128
R61129
R61130
R61023
R61024
R61025
R61026
R61027
R61028
R61029
R61030
R61090
R61091
MEWR
C61016
0.01
IC61004
UPD65012FA19
P61010
VJP3088
D_GND
OSD_CLK
OSD_DA
OSD_CS
FAN_12V
FAN_GND
FAN_DET
R61135
R61136
R61137
R61140
R61141
R61142
FRS_CLK
FRS_IF
R61143
FRS_FR
D61003
D61002
D61001
11EQS04
D_5.5V
D61004
11EQS04
L61006
VLP0017
C61015
6V100
C61014
0.1
D_GND
IC61005
TL7705CPSB
C61012
0.1(B)
C61013
50V3R3
R61039
10K
C61021
0.01
VREF
RESIN_N
CT
GND
VCC
VSENS
RESET
RESET_N
R61144
CTL_PULSE_H
R61145
R61146
R61147
R61148
PORT_A4
FORT_A5
FORT_A6
FORT_A7
R61149
R61150
R61151
SYS_RESET
HIG_REC_L
S_VHS_SW_L
R61152
R61153
R61154
R61155
FORT_B4
FORT_B5
FORT_B6
FORT_B7
CTL
TP61004
CTL_PULSE
R61132
HIG_DET_L
FRS_FR
R61133
R61134
34P+12V
CTL_34P
+12V
L61004
VLP0054
L61002
VLQ0067
SYS_IF
R61156
R61157
R61158
SYS_CLK
SYS_SYS
SYS_IF
ROTARY_SW
R_9P_L
FAN_12V
FAN_GND
FAN_DET
D5V

Ref No.61000 Series.

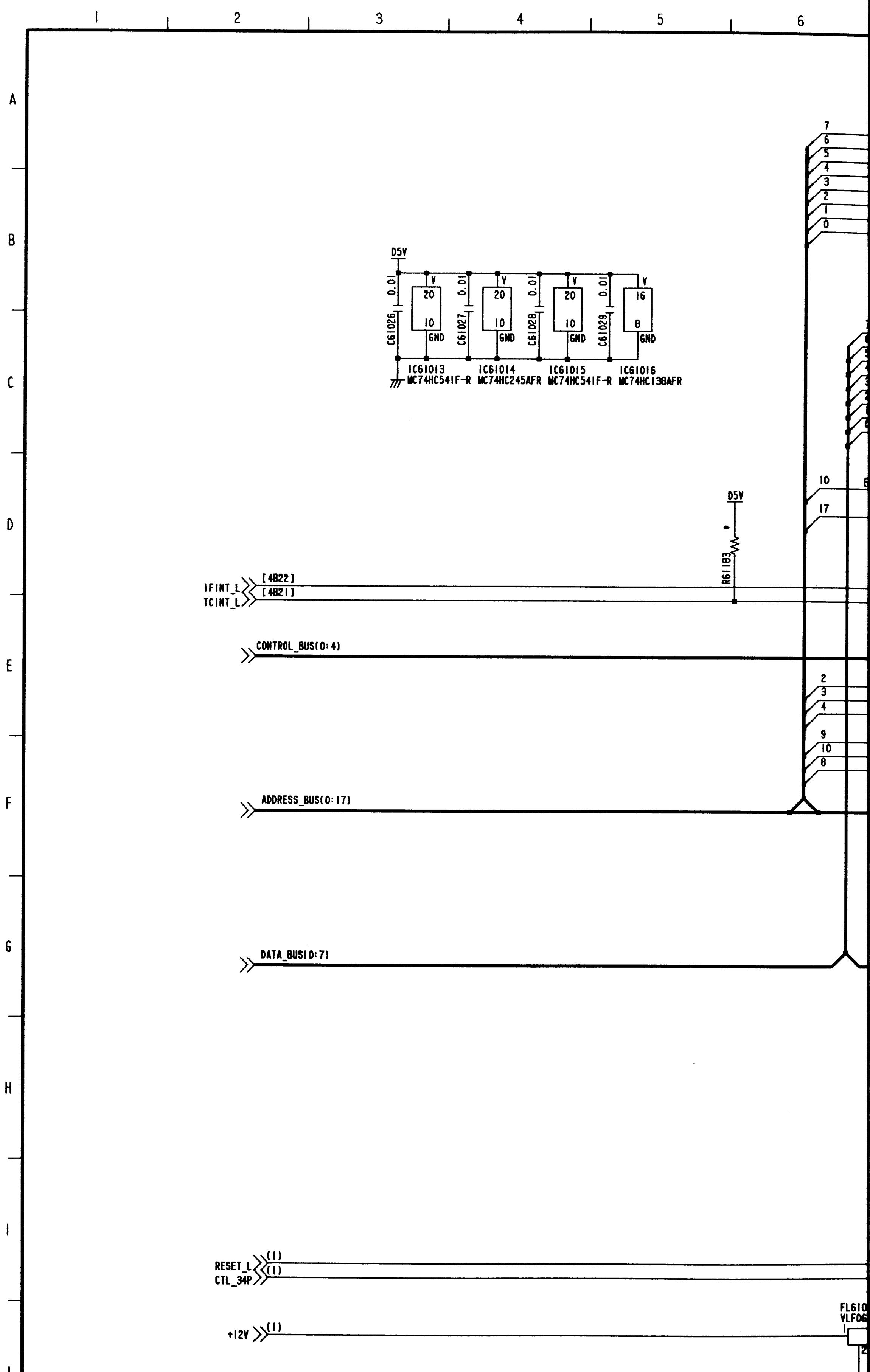

12
13
14
15
16
D5V
0.01
C61018
C61017
C61019
C61020
V
8
4
14
7
GND
3
5
IC61009
TC7WD4FTE12L
IC61008
TC7WD0FTE12L
IC61007
MC74HC32AF-R
IC61009
TC7WD4FTE12L
IC61010
MC74HC14AF-R
(2,3,4)
RESET_L
CONTROL_BUS(0:4)
ADDRESS_BUS(0:17)
DATA_BUS(0:7)
P61010
VJP3088
1 D_GND
2 OSD_CLK
3 OSD_DA
4 OSD_CS
5 FAN_12V
6 FAN_GND
7 FAN_DET
8
R61135 100
R61136 100
R61137 100
R61140 100
R61141 100
R61142 100
[1B12]
[1B14]
FRS_CLK
FRS_IF
10 FRS_CLK
11 FRS_IF
R61143 100
12 FRS_FR
R61144 100
[4A13]
CTL_PULSE_H
R61145 100
R61146 100
R61147 100
R61148 100
13 PORT_A4
14 FORT_A5
15 FORT_A6
16 FORT_A7
R61149 100
R61150 100
R61151 100
[1A28]
[1A29]
[1A30]
SYS_RESET
HIG_REC_L
S_VHS_SW_L
R61152 100
R61153 100
R61154 100
R61155 100
17 FORT_B4
18 FORT_B5
19 FORT_B6
20 FORT_B7
(2)
(2)
CTL_34P
+12V
L61004
VLP0054
L61002
VLQ0067
[1B11]
SYS_IF
R61156 100
R61157 100
21 SYS_CLK
22 SYS_SYS
R61158 100
24 SYS_IF
(3)
R_9P_L

Ref No.61000 Series.

INTERFACE-1 DC VOLTAGE CHART

REF. NO.	IC61002									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0.7	1.8	3.4	2.5	2.8	2.5	2.6	2.7	2.7	2.6
REC	0.7	1.8	3.4	2.5	2.8	2.5	2.6	2.7	2.7	2.6
REF. NO.	IC61002									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	2.1	2.7	2.1	0	2.8	1.9	2.5	1.9	2.0	0.6
REC	2.1	2.7	2.1	0	2.8	1.9	2.5	1.9	2.0	0.6
REF. NO.	IC61002									
MODE	21	22	23	24	25	26	27	28		
STOP	2.1	2.1	1.0	3.6	3.3	0.7	0.8	5.1		
REC	2.1	2.1	1.0	3.6	3.3	0.7	0.8	5.1		
REF. NO.	IC61003									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	3.4	2.5	2.6	2.6	2.7	2.6	5.1	0	5.1	5.1
REC	3.4	2.5	2.6	2.6	2.7	2.6	5.1	0	5.1	5.1
REF. NO.	IC61003									
MODE	11	12	13	14	15	16	17	18		
STOP	5.1	2.1	2.8	2.0	2.8	2.8	2.5	5.1		
REC	5.1	2.1	2.8	2.0	2.8	2.8	2.5	5.1		
REF. NO.	IC61005									
MODE	1	2	3	4	5	6	7	8		
STOP	2.5	5.1	3.1	0	5.1	0	5.1	5.1		
REC	2.5	5.1	3.1	0	5.1	0	5.1	5.1		
REF. NO.	IC61008									
MODE	1	2	3	4	5	6	7	8		
STOP	3.3	0.1	5.1	0	2.9	0.6	5.1	5.1		
REC	3.3	0.1	5.1	0	2.9	0.6	5.1	5.1		
REF. NO.	IC61011									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0	0.1	0	4.5	2.6	2.4	0	5.0	3.3
REC	0	0	0.1	0	4.5	2.6	2.4	0	5.0	3.3
REF. NO.	IC61011									
MODE	11	12	13	14	15	16				
STOP	0.3	5.1	0.2	0.2	0	5.1				
REC	0.3	5.1	0.2	0.2	0	5.1				
REF. NO.	Q61001									
MODE	E	C	B							
STOP	5.1	5.1	4.3							
REC	5.1	5.1	4.3							

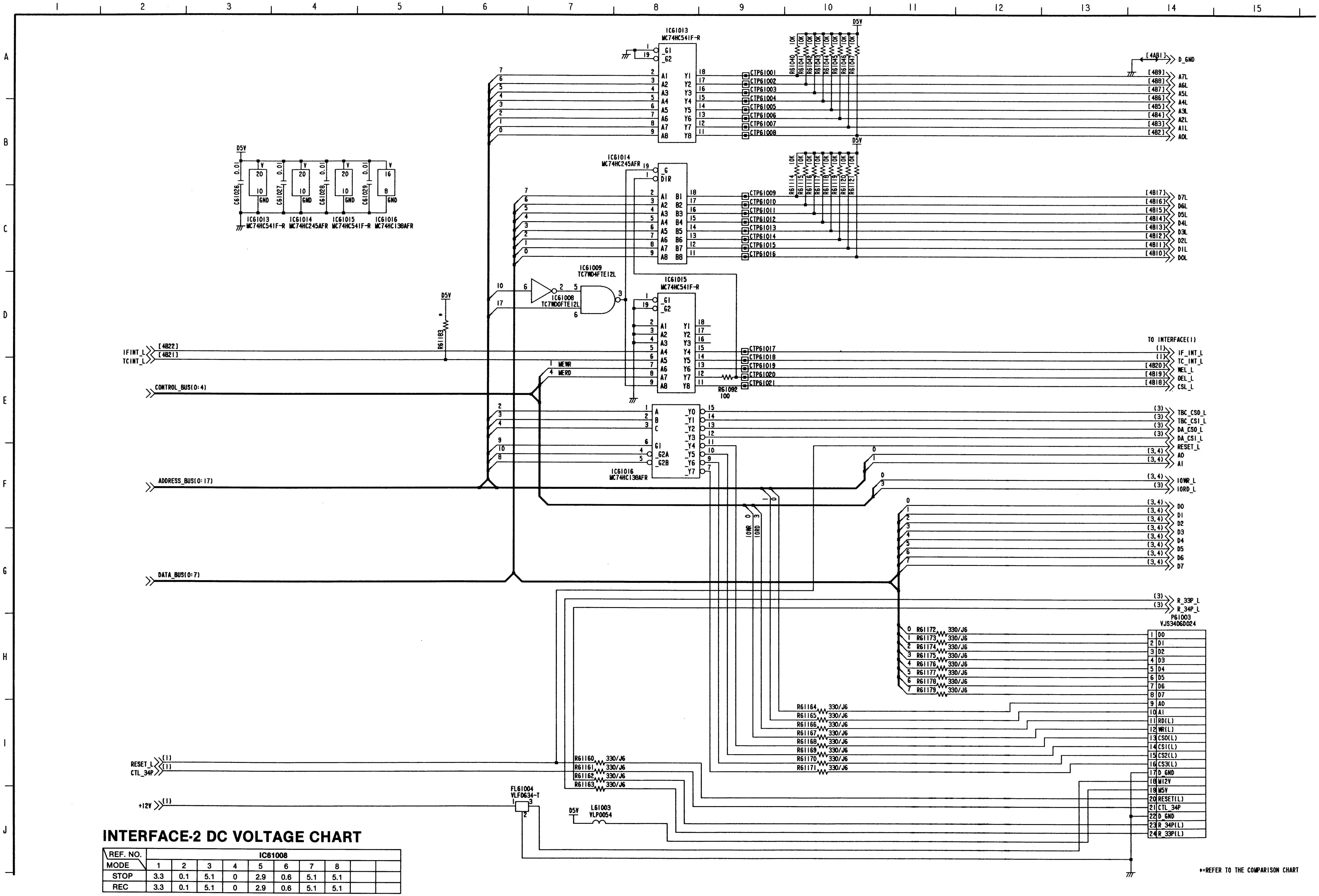
INTERFACE-2 SCHEMATIC DIAGRAM 2/6 (E9: Page CBA


1
2
3
4
5
6
A
B
C
D
E
F
G
H
I
J
7
6
5
4
3
2
1
0
D5V
0.01
C61026
C61027
C61028
C61029
V
20
10
16
8
GND
IC61013
MC74HC541F-R
IC61014
MC74HC245AFR
IC61015
MC74HC541F-R
IC61016
MC74HC138AFR
10
17
D5V
R61183
IFINT_L
TCINT_L
[4B22]
[4B21]
CONTROL_BUS(0:4)
2
3
4
9
10
8
ADDRESS_BUS(0:17)
DATA_BUS(0:7)
RESET_L
CTL_34P
(1)
(1)
+12V
(1)
FL610
VLF06

INTERFACE-2 DC VOLTAGE CHART

REF. NO.	IC61008									
MODE	1	2	3	4	5	6	7	8		
STOP	3.3	0.1	5.1	0	2.9	0.6	5.1	5.1		
REC	3.3	0.1	5.1	0	2.9	0.6	5.1	5.1		

INTERFACE-2 SCHEMATIC DIAGRAM 2/6 (E9: Page CBA-11)



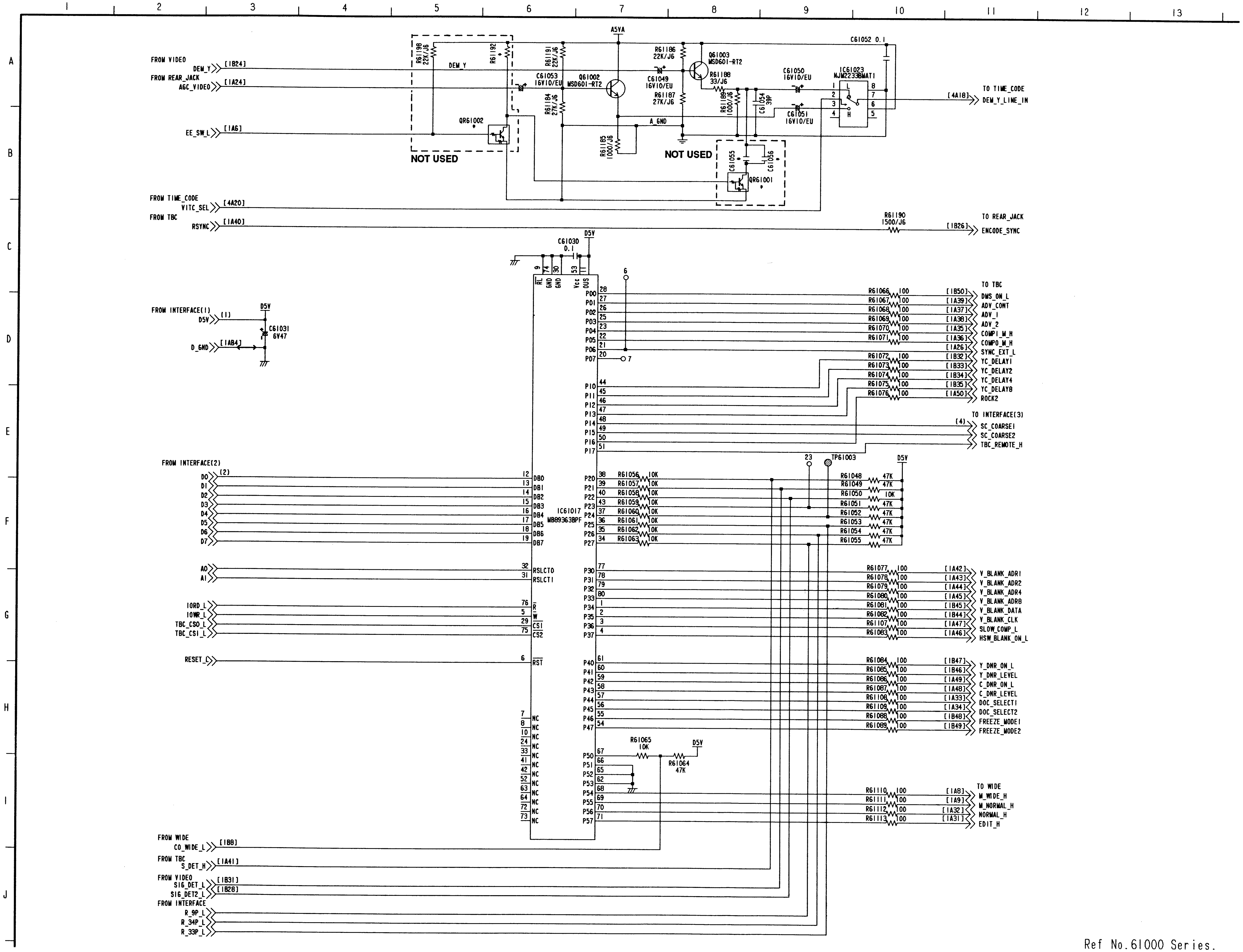
IC61013
MC74HC541F-R
IC61014
MC74HC245AFR
IC61015
MC74HC541F-R
IC61016
MC74HC138AFR
IC61009
TC7WU04FTE12L
IC61008
TC7W00FTE12L
D5V
C61026
C61027
C61028
C61029
0.01
R61183
R61092
100
R61040
R61041
R61042
R61043
R61044
R61045
R61046
R61047
R61114
R61115
R61116
R61117
R61118
R61119
R61120
R61121
10K
CTP61001
CTP61002
CTP61003
CTP61004
CTP61005
CTP61006
CTP61007
CTP61008
CTP61009
CTP61010
CTP61011
CTP61012
CTP61013
CTP61014
CTP61015
CTP61016
CTP61017
CTP61018
CTP61019
CTP61020
CTP61021
D_GND
A7L
A6L
A5L
A4L
A3L
A2L
A1L
A0L
D7L
D6L
D5L
D4L
D3L
D2L
D1L
D0L
TO INTERFACE(1)
IF_INT_L
TC_INT_L
WEL_L
OEL_L
CSL_L
TBC_CS0_L
TBC_CS1_L
DA_CS0_L
DA_CS1_L
RESET_L
A0
A1
IOWR_L
IORD_L
D0
D1
D2
D3
D4
D5
D6
D7
R_33P_L
R_34P_L
IFINT_L
TCINT_L
CONTROL_BUS(0:4)
ADDRESS_BUS(0:17)
DATA_BUS(0:7)
MEWR
MERD
IOWR
IORD
RESET_L
CTL_34P
+12V
FL61004
VLF0634-T
L61003
VLP0054
R61160
R61161
R61162
R61163
R61164
R61165
R61166
R61167
R61168
R61169
R61170
R61171
R61172
R61173
R61174
R61175
R61176
R61177
R61178
R61179
330/J6
P61003
VJS3406D024
1 D0
2 D1
3 D2
4 D3
5 D4
6 D5
7 D6
8 D7
9 A0
10 A1
11 RD(L)
12 WR(L)
13 CS0(L)
14 CS1(L)
15 CS2(L)
16 CS3(L)
17 D_GND
18 M12V
19 M5V
20 RESET(L)
21 CTL_34P
22 D_GND
23 R_34P(L)
24 R_33P(L)

INTERFACE-2 DC VOLTAGE CHART

REF. NO.	IC61008									
MODE	1	2	3	4	5	6	7	8		
STOP	3.3	0.1	5.1	0	2.9	0.6	5.1	5.1		
REC	3.3	0.1	5.1	0	2.9	0.6	5.1	5.1		

*=REFER TO THE COMPARISON CHART

INTERFACE-3 SCHEMATIC DIAGRAM 3/6 (E9: Page CBA-11)


1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
G
H
I
J
FROM VIDEO
DEM_Y
[1B24]
FROM REAR_JACK
AGC_VIDEO
[1A24]
EE_SW_L
[1A6]
R61198 22K/J6
R61192
DEM_Y
QR61002
NOT USED
A5VA
R61191 22K/J6
C61053 16V10/EU
Q61002 MSD601-RT2
R61184 27K/J6
R61185 1000/J6
R61186 22K/J6
C61049 16V10/EU
R61187 27K/J6
A_GND
Q61003 MSD601-RT2
R61188 33/J6
R61189 1000/J6
C61054 39P
NOT USED
C61055
C61056
QR61001
C61050 16V10/EU
C61051 16V10/EU
IC61023 NJM2233BMAT1
L
H
C61052 0.1
[4A18]
TO TIME_CODE
DEM_Y_LINE_IN
FROM TIME_CODE
VITC_SEL
[4A20]
FROM TBC
RSYNC
[1A40]
R61190 1500/J6
[1B26]
TO REAR_JACK
ENCODE_SYNC
C61030 0.1
D5V
RL
GND
GND
Vcc
OUS
FROM INTERFACE(1)
D5V
(1)
C61031 6V47
D_GND
[1A84]
IC61017 MB89363BPF
P00
P01
P02
P03
P04
P05
P06
P07
P10
P11
P12
P13
P14
P15
P16
P17
TO TBC
R61066 100
[1B50]
DMS_ON_L
R61067 100
[1A39]
ADV_CONT
R61068 100
[1A37]
ADV_1
R61069 100
[1A38]
ADV_2
R61070 100
[1A35]
COMPI_M_H
R61071 100
[1A36]
COMPO_M_H
[1A26]
SYNC_EXT_L
R61072 100
[1B32]
YC_DELAY1
R61073 100
[1B33]
YC_DELAY2
R61074 100
[1B34]
YC_DELAY4
R61075 100
[1B35]
YC_DELAY8
R61076 100
[1A50]
ROCK2
TO INTERFACE(3)
(4)
SC_COARSE1
SC_COARSE2
TBC_REMOTE_H
23
TP61003
FROM INTERFACE(2)
(2)
D0
D1
D2
D3
D4
D5
D6
D7
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
P20
P21
P22
P23
P24
P25
P26
P27
R61056 10K
R61057 10K
R61058 10K
R61059 10K
R61060 10K
R61061 10K
R61062 10K
R61063 10K
R61048 47K
R61049 47K
R61050 10K
R61051 47K
R61052 47K
R61053 47K
R61054 47K
R61055 47K
A0
A1
RSLCT0
RSLCT1
IORD_L
IOWR_L
TBC_CS0_L
TBC_CS1_L
RI
W
CS1
CS2
RESET_L
RST
P30
P31
P32
P33
P34
P35
P36
P37
R61077 100
[1A42]
V_BLANK_ADR1
R61078 100
[1A43]
V_BLANK_ADR2
R61079 100
[1A44]
V_BLANK_ADR4
R61080 100
[1A45]
V_BLANK_ADR8
R61081 100
[1B45]
V_BLANK_DATA
R61082 100
[1B44]
V_BLANK_CLK
R61107 100
[1A47]
SLOW_COMP_L
R61083 100
[1A46]
HSW_BLANK_ON_L
P40
P41
P42
P43
P44
P45
P46
P47
R61084 100
[1B47]
Y_DNR_ON_L
R61085 100
[1B46]
Y_DNR_LEVEL
R61086 100
[1A49]
C_DNR_ON_L
R61087 100
[1A48]
C_DNR_LEVEL
R61108 100
[1A33]
DOC_SELECT1
R61109 100
[1A34]
DOC_SELECT2
R61088 100
[1B48]
FREEZE_MODE1
R61089 100
[1B49]
FREEZE_MODE2
NC
P50
P51
P52
P53
P54
P55
P56
P57
R61065 10K
R61064 47K
D5V
TO WIDE
R61110 100
[1A8]
M_WIDE_H
R61111 100
[1A9]
M_NORMAL_H
R61112 100
[1A32]
NORMAL_H
R61113 100
[1A31]
EDIT_H
FROM WIDE
CO_WIDE_L
[1B8]
FROM TBC
S_DET_H
[1A41]
FROM VIDEO
SIG_DET_L
[1B31]
SIG_DET2_L
[1B28]
FROM INTERFACE
R_9P_L
R_34P_L
R_33P_L

Ref No.61000 Series.

INTERFACE-3 DC VOLTAGE CHA

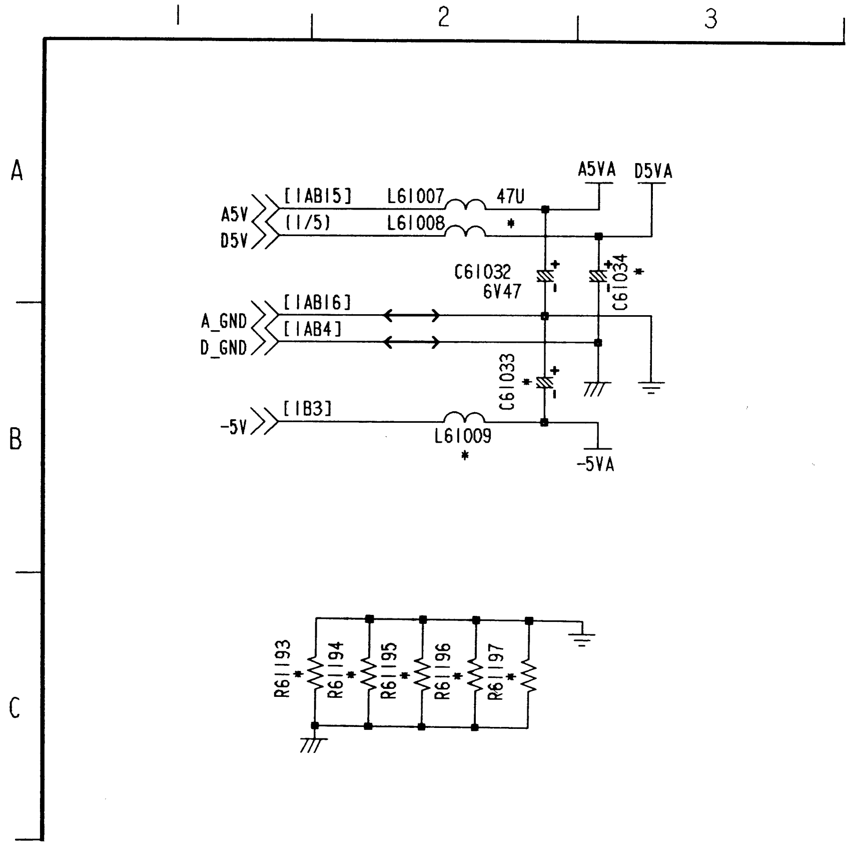
REF. NO.	IC61017							
MODE	1	2	3	4	5	6	7	8
STOP	5.1	5.1	0	5.1	5.1	5.1	0	0
REC	5.1	5.1	0	5.1	5.1	5.1	0	0
REF. NO.	IC61017							
MODE	11	12	13	14	15	16	17	1
STOP	5.1	2.1	2.8	2.1	2.8	1.9	2.5	1.
REC	5.1	2.1	2.8	2.1	2.8	1.9	2.5	1.
REF. NO.	IC61017							
MODE	21	22	23	24	25	26	27	2
STOP	5.1	5.1	5.1	0	5.1	5.1	5.1	0
REC	5.1	5.1	5.1	0	5.1	5.1	5.1	0
REF. NO.	IC61017							
MODE	31	32	33	34	35	36	37	3
STOP	2.7	2.6	0	0	5.0	5.0	5.0	5.
REC	2.7	2.6	0	0	5.1	5.1	5.1	5.
REF. NO.	IC61017							
MODE	41	42	43	44	45	46	47	4
STOP	0	0	5.0	5.1	5.1	5.1	5.1	5.
REC	0	0	5.0	5.1	5.1	5.1	5.1	5.
REF. NO.	IC61017							
MODE	51	52	53	54	55	56	57	5
STOP	5.1	0	5.1	5.1	5.1	5.1	5.1	5.
REC	5.1	0	5.1	5.1	5.1	5.1	5.1	5.
REF. NO.	IC61017							
MODE	61	62	63	64	65	66	67	6
STOP	5.1	0	0	0	0	0	4.9	0
REC	5.1	0	0	0	0	0	4.9	0
REF. NO.	IC61017							
MODE	71	72	73	74	75	76	77	7
STOP	5.0	0	0	0	5.1	5.1	5.1	5.
REC	5.0	0	0	0	5.1	5.1	5.1	5.
REF. NO.	IC61023							
MODE	1	2	3	4	5	6	7	8
STOP	2.9	0	3.0	0	0	5.0	2.2	0
REC	2.9	0	3.0	0	0	5.0	2.2	0
REF. NO.	Q61002			Q61003				
MODE	E	C	B	E	C	B		
STOP	2.0	5.0	2.7	2.0	5.0	2.6		
REC	2.0	5.0	2.7	2.0	5.0	2.6		

12 13

INTERFACE-3 DC VOLTAGE CHART

REF. NO.	IC61017									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	5.1	5.1	0	5.1	5.1	5.1	0	0	0	0
REC	5.1	5.1	0	5.1	5.1	5.1	0	0	0	0
REF. NO.	IC61017									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	5.1	2.1	2.8	2.1	2.8	1.9	2.5	1.9	2.0	0
REC	5.1	2.1	2.8	2.1	2.8	1.9	2.5	1.9	2.0	0
REF. NO.	IC61017									
MODE	21	22	23	24	25	26	27	28	29	30
STOP	5.1	5.1	5.1	0	5.1	5.1	5.1	0	5.1	0
REC	5.1	5.1	5.1	0	5.1	5.1	5.1	0	5.1	0
REF. NO.	IC61017									
MODE	31	32	33	34	35	36	37	38	39	40
STOP	2.7	2.6	0	0	5.0	5.0	5.0	5.0	0	0.2
REC	2.7	2.6	0	0	5.1	5.1	5.1	5.0	0	0.2
REF. NO.	IC61017									
MODE	41	42	43	44	45	46	47	48	49	50
STOP	0	0	5.0	5.1	5.1	5.1	5.1	5.1	5.1	0
REC	0	0	5.0	5.1	5.1	5.1	5.1	5.1	5.1	0
REF. NO.	IC61017									
MODE	51	52	53	54	55	56	57	58	59	60
STOP	5.1	0	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
REC	5.1	0	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
REF. NO.	IC61017									
MODE	61	62	63	64	65	66	67	68	69	70
STOP	5.1	0	0	0	0	0	4.9	0	0	0
REC	5.1	0	0	0	0	0	4.9	0	0	0
REF. NO.	IC61017									
MODE	71	72	73	74	75	76	77	78	79	80
STOP	5.0	0	0	0	5.1	5.1	5.1	5.1	5.1	5.1
REC	5.0	0	0	0	5.1	5.1	5.1	5.1	5.1	5.1
REF. NO.	IC61023									
MODE	1	2	3	4	5	6	7	8		
STOP	2.9	0	3.0	0	0	5.0	2.2	0		
REC	2.9	0	3.0	0	0	5.0	2.2	0		
REF. NO.	Q61002			Q61003						
MODE	E	C	B	E	C	B				
STOP	2.0	5.0	2.7	2.0	5.0	2.6				
REC	2.0	5.0	2.7	2.0	5.0	2.6				

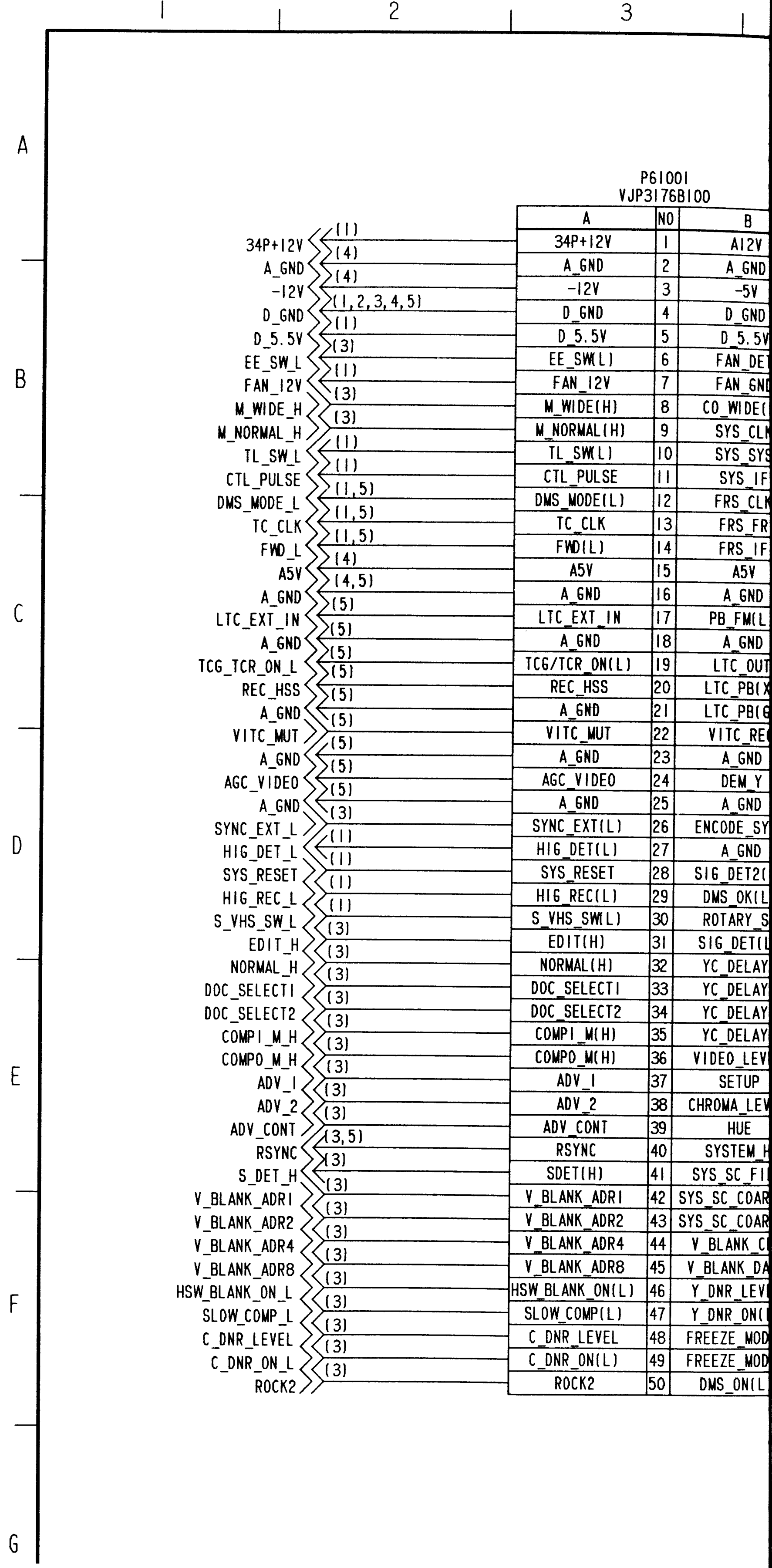
INTERFACE-4 SCHEMATIC DIAGRAM 4/6
(E9: Page CBA-11)


1
2
3
A
B
C
A5VA
D5VA
A5V
D5V
[IAB15]
[I/5]
L61007
L61008
47U
C61032
6V47
C61034
A_GND
D_GND
[IAB16]
[IAB4]
C61033
-5V
[IB3]
L61009
-5VA
R61193
R61194
R61195
R61196
R61197

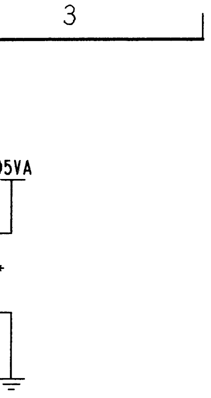
INTERFACE COMPARISON CHART 6/6
(E9: Page CBA-11)

REF	AG-7700, AG-7600
C61033	*PAT/EVV
C61034	*PAT/EVV
L61008	*PAT
L61009	*PAT
R61183	10K/J6
R61192	*PAT/J6
R61193	0/J6
R61194	0/J6
R61195	0/J6
R61196	0/J6
R61197	0/J6

INTERFACE-5 SCHEMATIC DIAGRAM 5/6 (

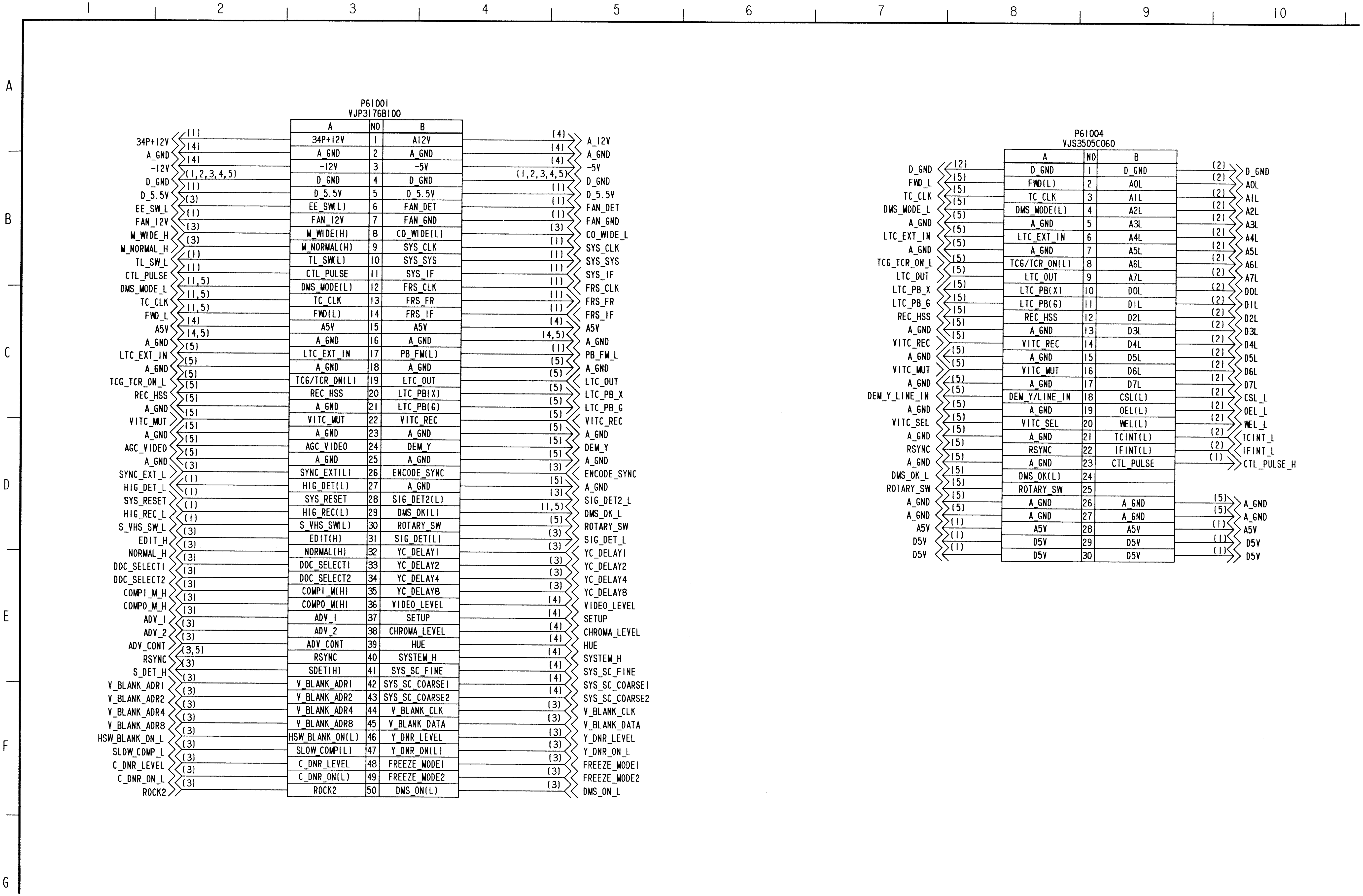

1
2
3
A
B
C
D
E
F
G
P61001
VJP3176B100
A
NO
B
34P+12V (1) 34P+12V 1 A12V
A_GND (4) A_GND 2 A_GND
-12V (4) -12V 3 -5V
D_GND (1,2,3,4,5) D_GND 4 D_GND
D_5.5V (1) D_5.5V 5 D_5.5V
EE_SW_L (3) EE_SW(L) 6 FAN_DE
FAN_12V (1) FAN_12V 7 FAN_GN
M_WIDE_H (3) M_WIDE(H) 8 CO_WIDE(
M_NORMAL_H (3) M_NORMAL(H) 9 SYS_CL
TL_SW_L (1) TL_SW(L) 10 SYS_SYS
CTL_PULSE (1) CTL_PULSE 11 SYS_IF
DMS_MODE_L (1,5) DMS_MODE(L) 12 FRS_CL
TC_CLK (1,5) TC_CLK 13 FRS_FR
FWD_L (1,5) FWD(L) 14 FRS_IF
A5V (4) A5V 15 A5V
A_GND (4,5) A_GND 16 A_GND
LTC_EXT_IN (5) LTC_EXT_IN 17 PB_FM(L
A_GND (5) A_GND 18 A_GND
TCG_TCR_ON_L (5) TCG/TCR_ON(L) 19 LTC_OUT
REC_HSS (5) REC_HSS 20 LTC_PB(X
A_GND (5) A_GND 21 LTC_PB(
VITC_MUT (5) VITC_MUT 22 VITC_RE
A_GND (5) A_GND 23 A_GND
AGC_VIDEO (5) AGC_VIDEO 24 DEM_Y
A_GND (5) A_GND 25 A_GND
SYNC_EXT_L (3) SYNC_EXT(L) 26 ENCODE_SY
HIG_DET_L (1) HIG_DET(L) 27 A_GND
SYS_RESET (1) SYS_RESET 28 SIG_DET2(
HIG_REC_L (1) HIG_REC(L) 29 DMS_OK(L
S_VHS_SW_L (1) S_VHS_SW(L) 30 ROTARY_S
EDIT_H (3) EDIT(H) 31 SIG_DET(L
NORMAL_H (3) NORMAL(H) 32 YC_DELAY
DOC_SELECT1 (3) DOC_SELECT1 33 YC_DELAY
DOC_SELECT2 (3) DOC_SELECT2 34 YC_DELAY
COMPI_M_H (3) COMPI_M(H) 35 YC_DELAY
COMPO_M_H (3) COMPO_M(H) 36 VIDEO_LEV
ADV_1 (3) ADV_1 37 SETUP
ADV_2 (3) ADV_2 38 CHROMA_LEV
ADV_CONT (3) ADV_CONT 39 HUE
RSYNC (3,5) RSYNC 40 SYSTEM_H
S_DET_H (3) SDET(H) 41 SYS_SC_FI
V_BLANK_ADR1 (3) V_BLANK_ADR1 42 SYS_SC_COAR
V_BLANK_ADR2 (3) V_BLANK_ADR2 43 SYS_SC_COAR
V_BLANK_ADR4 (3) V_BLANK_ADR4 44 V_BLANK_C
V_BLANK_ADR8 (3) V_BLANK_ADR8 45 V_BLANK_DA
HSW_BLANK_ON_L (3) HSW_BLANK_ON(L) 46 Y_DNR_LEV
SLOW_COMP_L (3) SLOW_COMP(L) 47 Y_DNR_ON(
C_DNR_LEVEL (3) C_DNR_LEVEL 48 FREEZE_MOD
C_DNR_ON_L (3) C_DNR_ON(L) 49 FREEZE_MOD
ROCK2 (3) ROCK2 50 DMS_ON(L

GRAM 4/6



ART 6/6

INTERFACE-5 SCHEMATIC DIAGRAM 5/6 (E9: Page CBA-11)



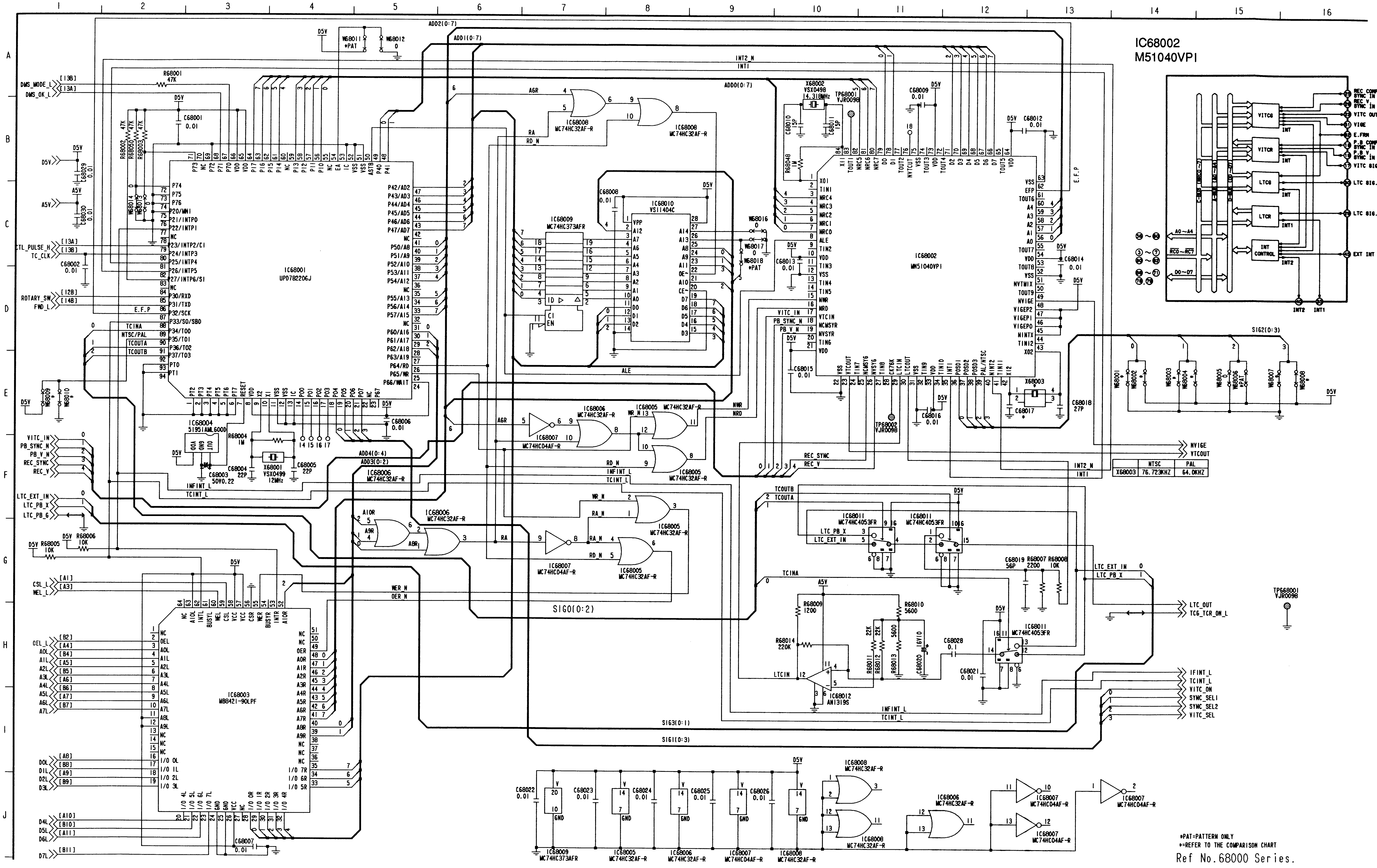
P61001
VJP3176B100

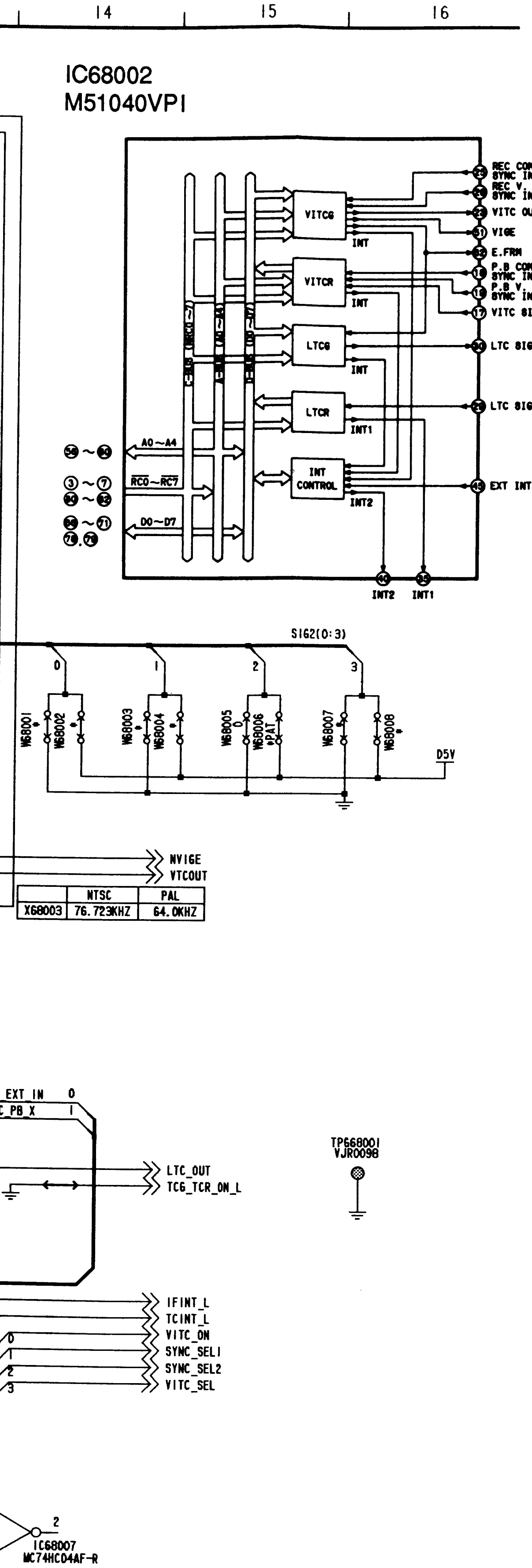
		A	NO	B		
34P+12V	(1)	34P+12V	1	A12V	(4)	A_12V
A_GND	(4)	A_GND	2	A_GND	(4)	A_GND
-12V	(4)	-12V	3	-5V	(4)	-5V
D_GND	(1,2,3,4,5)	D_GND	4	D_GND	(1,2,3,4,5)	D_GND
D_5.5V	(1)	D_5.5V	5	D_5.5V	(1)	D_5.5V
EE_SW_L	(3)	EE_SW(L)	6	FAN_DET	(1)	FAN_DET
FAN_12V	(1)	FAN_12V	7	FAN_GND	(1)	FAN_GND
M_WIDE_H	(3)	M_WIDE(H)	8	CO_WIDE(L)	(3)	CO_WIDE_L
M_NORMAL_H	(3)	M_NORMAL(H)	9	SYS_CLK	(1)	SYS_CLK
TL_SW_L	(1)	TL_SW(L)	10	SYS_SYS	(1)	SYS_SYS
CTL_PULSE	(1)	CTL_PULSE	11	SYS_IF	(1)	SYS_IF
DMS_MODE_L	(1,5)	DMS_MODE(L)	12	FRS_CLK	(1)	FRS_CLK
TC_CLK	(1,5)	TC_CLK	13	FRS_FR	(1)	FRS_FR
FWD_L	(1,5)	FWD(L)	14	FRS_IF	(1)	FRS_IF
A5V	(4)	A5V	15	A5V	(4)	A5V
A_GND	(4,5)	A_GND	16	A_GND	(4,5)	A_GND
LTC_EXT_IN	(5)	LTC_EXT_IN	17	PB_FM(L)	(1)	PB_FM_L
A_GND	(5)	A_GND	18	A_GND	(5)	A_GND
TCG_TCR_ON_L	(5)	TCG/TCR_ON(L)	19	LTC_OUT	(5)	LTC_OUT
REC_HSS	(5)	REC_HSS	20	LTC_PB(X)	(5)	LTC_PB_X
A_GND	(5)	A_GND	21	LTC_PB(G)	(5)	LTC_PB_G
VITC_MUT	(5)	VITC_MUT	22	VITC_REC	(5)	VITC_REC
A_GND	(5)	A_GND	23	A_GND	(5)	A_GND
AGC_VIDEO	(5)	AGC_VIDEO	24	DEM_Y	(5)	DEM_Y
A_GND	(5)	A_GND	25	A_GND	(5)	A_GND
SYNC_EXT_L	(3)	SYNC_EXT(L)	26	ENCODE_SYNC	(3)	ENCODE_SYNC
HIG_DET_L	(1)	HIG_DET(L)	27	A_GND	(5)	A_GND
SYS_RESET	(1)	SYS_RESET	28	SIG_DET2(L)	(3)	SIG_DET2_L
HIG_REC_L	(1)	HIG_REC(L)	29	DMS_OK(L)	(1,5)	DMS_OK_L
S_VHS_SW_L	(1)	S_VHS_SW(L)	30	ROTARY_SW	(5)	ROTARY_SW
EDIT_H	(3)	EDIT(H)	31	SIG_DET(L)	(3)	SIG_DET_L
NORMAL_H	(3)	NORMAL(H)	32	YC_DELAY1	(3)	YC_DELAY1
DOC_SELECT1	(3)	DOC_SELECT1	33	YC_DELAY2	(3)	YC_DELAY2
DOC_SELECT2	(3)	DOC_SELECT2	34	YC_DELAY4	(3)	YC_DELAY4
COMP1_M_H	(3)	COMP1_M(H)	35	YC_DELAY8	(3)	YC_DELAY8
COMPO_M_H	(3)	COMPO_M(H)	36	VIDEO_LEVEL	(4)	VIDEO_LEVEL
ADV_1	(3)	ADV_1	37	SETUP	(4)	SETUP
ADV_2	(3)	ADV_2	38	CHROMA_LEVEL	(4)	CHROMA_LEVEL
ADV_CONT	(3)	ADV_CONT	39	HUE	(4)	HUE
RSYNC	(3,5)	RSYNC	40	SYSTEM_H	(4)	SYSTEM_H
S_DET_H	(3)	SDET(H)	41	SYS_SC_FINE	(4)	SYS_SC_FINE
V_BLANK_ADR1	(3)	V_BLANK_ADR1	42	SYS_SC_COARSE1	(4)	SYS_SC_COARSE1
V_BLANK_ADR2	(3)	V_BLANK_ADR2	43	SYS_SC_COARSE2	(4)	SYS_SC_COARSE2
V_BLANK_ADR4	(3)	V_BLANK_ADR4	44	V_BLANK_CLK	(3)	V_BLANK_CLK
V_BLANK_ADR8	(3)	V_BLANK_ADR8	45	V_BLANK_DATA	(3)	V_BLANK_DATA
HSW_BLANK_ON_L	(3)	HSW_BLANK_ON(L)	46	Y_DNR_LEVEL	(3)	Y_DNR_LEVEL
SLOW_COMP_L	(3)	SLOW_COMP(L)	47	Y_DNR_ON(L)	(3)	Y_DNR_ON_L
C_DNR_LEVEL	(3)	C_DNR_LEVEL	48	FREEZE_MODE1	(3)	FREEZE_MODE1
C_DNR_ON_L	(3)	C_DNR_ON(L)	49	FREEZE_MODE2	(3)	FREEZE_MODE2
ROCK2	(3)	ROCK2	50	DMS_ON(L)	(3)	DMS_ON_L

P61004
VJS3505C060

		A	NO	B		
D_GND	(2)	D_GND	1	D_GND	(2)	D_GND
FWD_L	(5)	FWD(L)	2	A0L	(2)	A0L
TC_CLK	(5)	TC_CLK	3	A1L	(2)	A1L
DMS_MODE_L	(5)	DMS_MODE(L)	4	A2L	(2)	A2L
A_GND	(5)	A_GND	5	A3L	(2)	A3L
LTC_EXT_IN	(5)	LTC_EXT_IN	6	A4L	(2)	A4L
A_GND	(5)	A_GND	7	A5L	(2)	A5L
TCG_TCR_ON_L	(5)	TCG/TCR_ON(L)	8	A6L	(2)	A6L
LTC_OUT	(5)	LTC_OUT	9	A7L	(2)	A7L
LTC_PB_X	(5)	LTC_PB(X)	10	D0L	(2)	D0L
LTC_PB_G	(5)	LTC_PB(G)	11	D1L	(2)	D1L
REC_HSS	(5)	REC_HSS	12	D2L	(2)	D2L
A_GND	(5)	A_GND	13	D3L	(2)	D3L
VITC_REC	(5)	VITC_REC	14	D4L	(2)	D4L
A_GND	(5)	A_GND	15	D5L	(2)	D5L
VITC_MUT	(5)	VITC_MUT	16	D6L	(2)	D6L
A_GND	(5)	A_GND	17	D7L	(2)	D7L
DEM_Y_LINE_IN	(5)	DEM_Y/LINE_IN	18	CSL(L)	(2)	CSL_L
A_GND	(5)	A_GND	19	OEL(L)	(2)	OEL_L
VITC_SEL	(5)	VITC_SEL	20	WEL(L)	(2)	WEL_L
A_GND	(5)	A_GND	21	TCINT(L)	(2)	TCINT_L
RSYNC	(5)	RSYNC	22	IFINT(L)	(2)	IFINT_L
A_GND	(5)	A_GND	23	CTL_PULSE	(1)	CTL_PULSE_H
DMS_OK_L	(5)	DMS_OK(L)	24			
ROTARY_SW	(5)	ROTARY_SW	25			
A_GND	(5)	A_GND	26	A_GND	(5)	A_GND
A_GND	(5)	A_GND	27	A_GND	(5)	A_GND
A5V	(1)	A5V	28	A5V	(1)	A5V
D5V	(1)	D5V	29	D5V	(1)	D5V
D5V	(1)	D5V	30	D5V	(1)	D5V

TIME CODE-1 SCHEMATIC DIAGRAM 1/3 (E10: Page CBA-11)


IC68002
M51040VPI
IC68001
UPD78220GJ
IC68003
M88421-90LPF
IC68004
51951AML600D
IC68005
MC74HC32AF-R
IC68006
MC74HC32AF-R
IC68007
MC74HC04AF-R
IC68008
MC74HC32AF-R
IC68009
MC74HC373AFR
IC68010
VS11404C
IC68011
MC74HC4053FR
IC68012
AN1319S
X68001
VSX0499
12MHz
X68002
VSX0498
14.318MHz
X68003
DMS_MODE_L
DMS_OK_L
D5V
A5V
CTL_PULSE_H
TC_CLK
ROTARY_SW
FWD_L
VITC_IN
PB_SYNC_N
PB_V_N
REC_SYNC
REC_V
LTC_EXT_IN
LTC_PB_X
LTC_PB_G
CSL_L
WEL_L
OEL_L
A0L
A1L
A2L
A3L
A4L
A5L
A6L
A7L
D0L
D1L
D2L
D3L
D4L
D5L
D6L
D7L
ADD2(0:7)
ADD1(0:7)
ADD0(0:7)
ADD4(0:4)
ADD3(0:2)
INT2_N
INT1
ALE
NWR
NRD
SIG0(0:2)
SIG1(0:3)
SIG2(0:3)
SIG3(0:1)
TCINA
TCOUTA
TCOUTB
INFINT_L
TCINT_L
LTCIN
NVIGE
VTCOUT
LTC_OUT
TC6_TCR_ON_L
IFINT_L
TCINT_L
VITC_ON
SYNC_SEL1
SYNC_SEL2
VITC_SEL
REC COMP. SYNC IN
REC V. SYNC IN
VITC OUT
VIGE
E.FRM
P.B COMP. SYNC IN
P.B V. SYNC IN
VITC SIG.IN
LTC SIG.OUT
LTC SIG.IN
EXT INT
VITCG
VITCR
LTCG
LTCR
INT CONTROL
INT1
INT2
A0~A4
RC0~RC7
D0~D7
X68003
NTSC
PAL
76.723KHZ
64.0KHZ
TP68001
VJR0098
TP68002
VJR0098
*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART
Ref No.68000 Series.

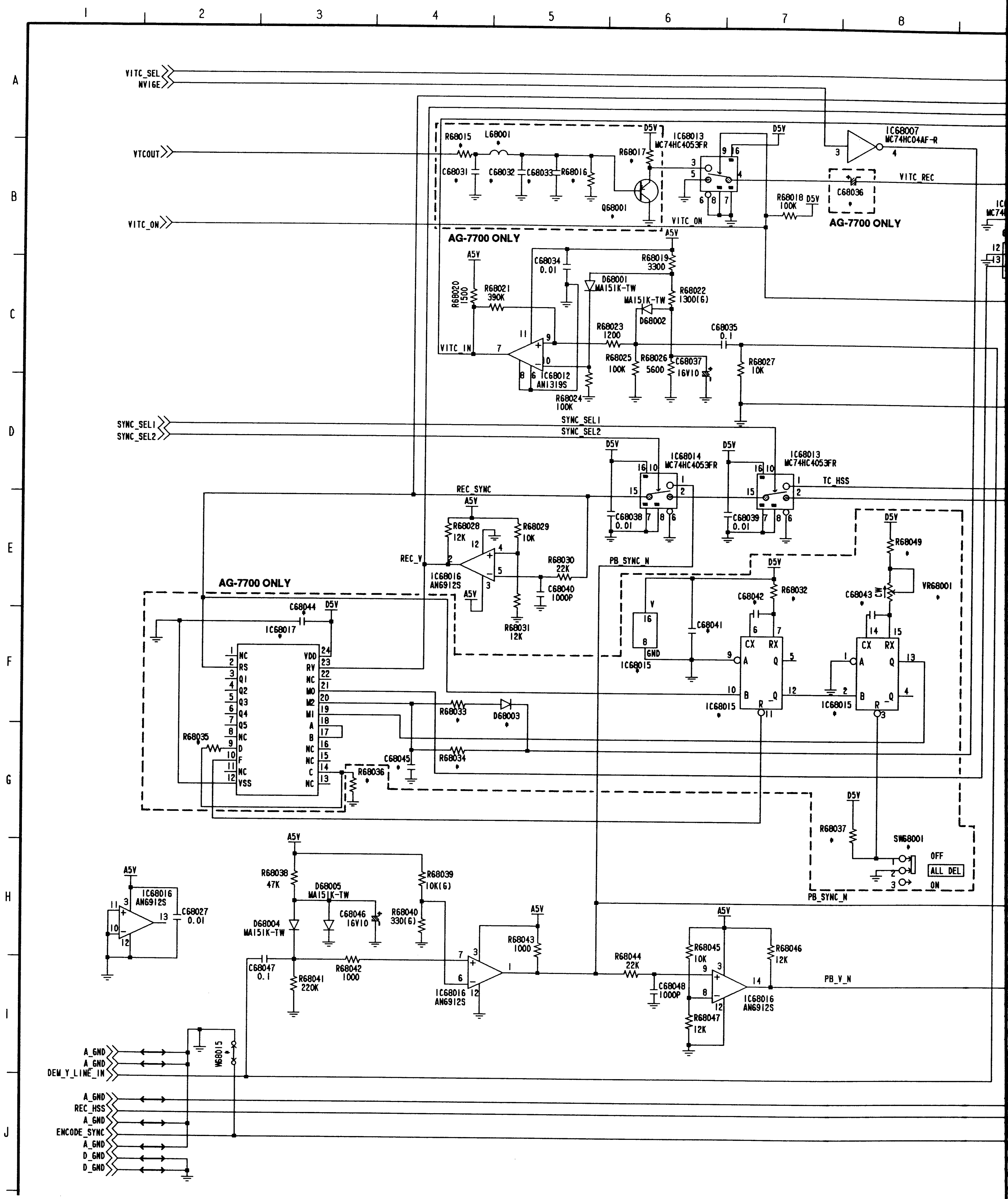

14
15
16
IC68002
M51040VPI
VITCG
VITCR
LTCG
LTCR
INT CONTROL
REC COMP. SYNC IN
REC V. SYNC IN
VITC OUT
VIGE
E.FRM
P.B COMP. SYNC IN
P.B V. SYNC IN
VITC SIG.IN
LTC SIG.OUT
LTC SIG.IN
EXT INT
INT
INT1
INT2
A0~A4
RCO~RC7
D0~D7
S162(0:3)
D5V
NVIGE
VTCOUT
NTSC
PAL
X68003
76.723KHZ
64.0KHZ
EXT_IN
LTC_OUT
TCG_TCR_ON_L
TP68001
VJR0098
IFINT_L
TCINT_L
VITC_ON
SYNC_SEL1
SYNC_SEL2
VITC_SEL
IC68007
MC74HC04AF-R

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART
Ref No.68000 Series.

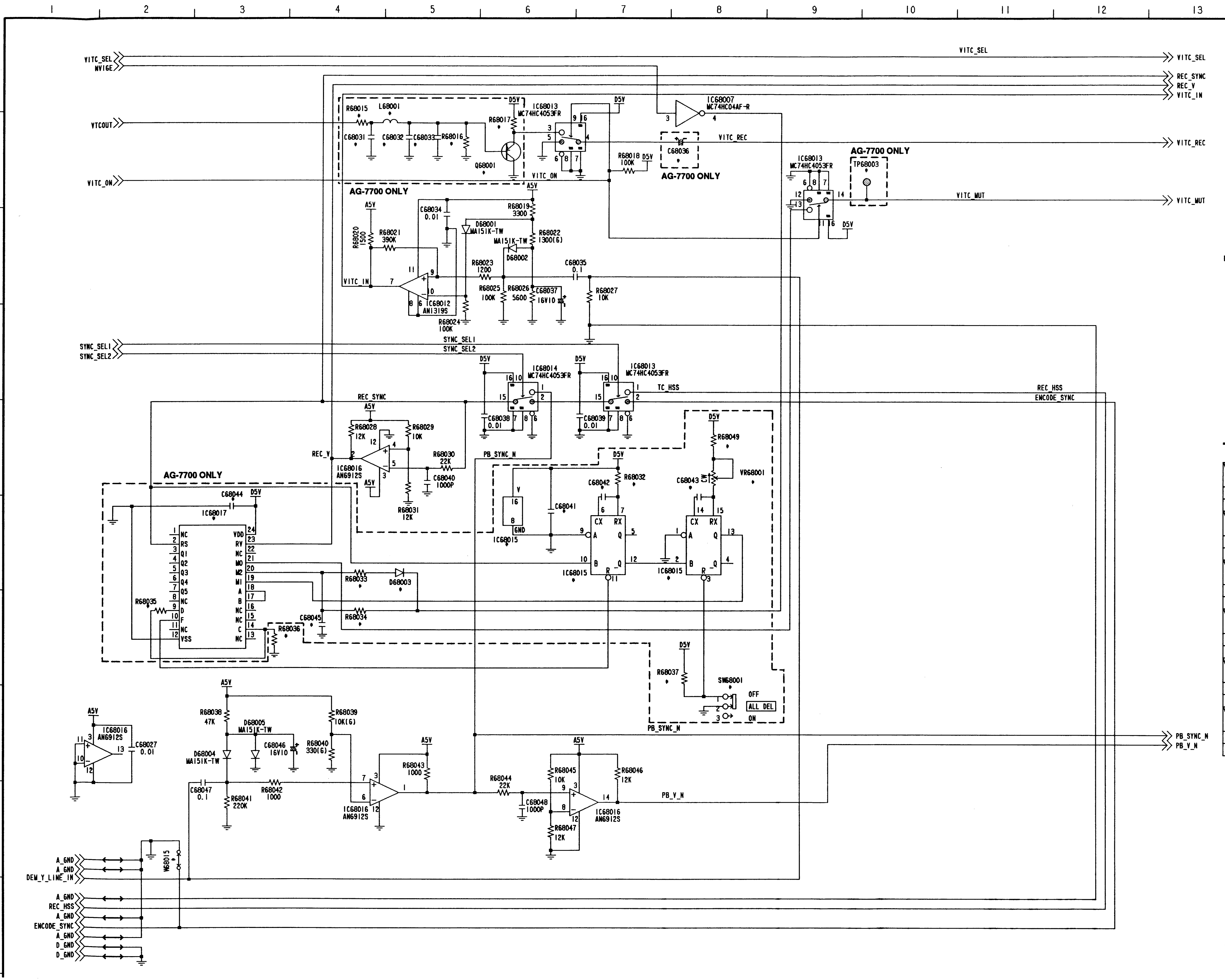
TIME CODE COMPARISON CHART 3/3 (E10: Page CBA-11)

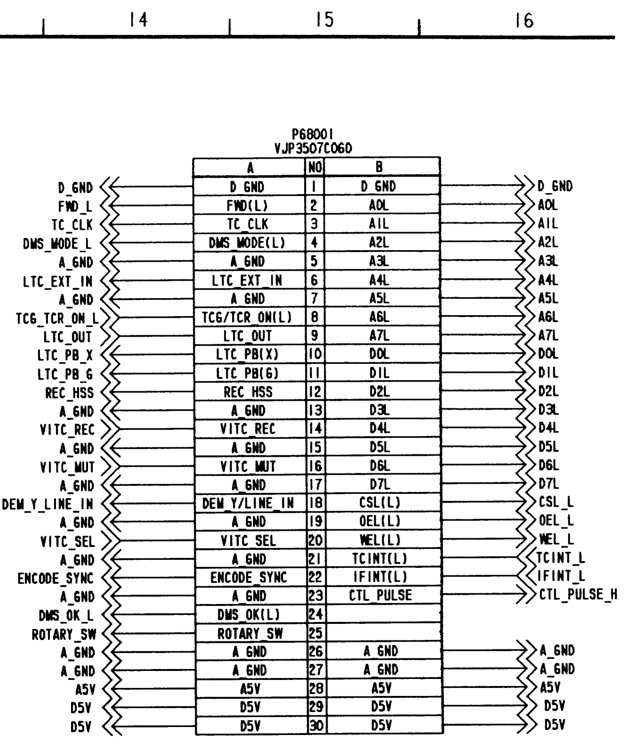
REF	AG-7700	AG-7600
C68017	22P/UN	22P/UN
C68031	5P/UN	*PAT/UN
C68032	56P/UN	*PAT/UN
C68033	6P/UN	*PAT/UN
C68036	50V2R2/EVV	*PAT/EVV
C68041	0.01/UFN	*PAT/UFN
C68042	1000P/UN	*PAT/UN
C68043	1000P/HU	*PAT/HU
C68044	0.01/UFN	*PAT/UFN
C68045	150P/UN	*PAT/UN
D68003	MA151K-TW	*PAT
IC68015	TC74HC221AFT	*PAT
IC68017	UPD65005X436	*PAT
L68001	220U/LC	*PAT/LC
Q68001	MSB709-RT2	*PAT
R68015	2700/J6	*PAT/J6
R68016	2700/J6	*PAT/J6
R68017	1000/J6	*PAT/J6
R68032	2000/RE	*PAT/RE
R68033	10K/RE	*PAT/RE
R68034	18K/RE	*PAT/RE
R68035	10K/J6	*PAT/J6
R68036	*PAT/J6	*PAT/J6
R68037	10K/J6	*PAT/J6
R68049	39K/J6	*PAT/J6
SW68001	VSS0342	*PAT
TP68003	VJR0098	*PAT
VR68001	20KB	*PAT
W68001	0/J6	0/J6
W68002	*PAT/J6	*PAT/J6
W68003	*PAT/J6	*PAT/J6
W68004	0/J6	0/J6
W68006	*PAT/J6	*PAT/J6
W68007	*PAT/J6	*PAT/J6
W68008	0/J6	0/J6
W68009	*PAT/J6	*PAT/J6
W68010	0/J6	0/J6
W68011	*PAT/J6	*PAT/J6
W68015	0/J6	0/J6
W68018	*PAT/J6	*PAT/J6
X68003	VSX0615-T	VSX0615-T

TIME CODE-2 SCHEMATIC DIAGRAM 2/3 (E10: Page CBA-11)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
VITC_SEL
NVIGE
VTCOUT
VITC_ON
SYNC_SEL1
SYNC_SEL2
R68015
L68001
C68031
C68032
C68033
R68016
R68017
Q68001
IC68013
MC74HC4053FR
IC68007
MC74HC04AF-R
VITC_REC
R68018
100K
C68036
AG-7700 ONLY
A5V
D5V
R68020
150
R68021
390K
C68034
0.01
D68001
MA151K-TW
R68019
3300
R68022
1300(6)
D68002
R68023
1200
R68025
100K
R68026
5600
C68037
16V10
R68027
10K
C68035
0.1
VITC_IN
IC68012
AN1319S
R68024
100K
IC68014
MC74HC4053FR
REC_SYNC
TC_HSS
C68038
0.01
C68039
0.01
R68028
12K
R68029
10K
REC_V
IC68016
AN6912S
R68030
22K
C68040
1000P
R68031
12K
PB_SYNC_N
R68049
VR68001
C68042
R68032
C68043
C68041
IC68015
C68044
IC68017
VDD
RV
NC
MO
M2
M1
A
B
C
RS
Q1
Q2
Q3
Q4
Q5
F
VSS
R68033
D68003
R68034
R68035
C68045
R68036
R68037
SW68001
OFF
ALL DEL
ON
PB_SYNC_N
R68038
47K
D68005
MA151K-TW
R68039
10K(6)
C68046
16V10
R68040
330(6)
D68004
MA151K-TW
C68027
0.01
C68047
0.1
R68041
220K
R68042
1000
R68043
1000
R68044
22K
C68048
1000P
R68045
10K
R68046
12K
R68047
12K
PB_V_N
A_GND
DEW_Y_LINE_IN
REC_HSS
ENCODE_SYNC
D_GND
W68015

TIME CODE-2 SCHEMATIC DIAGRAM 2/3 (E10: Page CBA-11)


1
2
3
4
5
6
7
8
9
10
11
12
13
VITC_SEL
NVIGE
VTCOUT
VITC_ON
VITC_SEL
REC_SYNC
REC_V
VITC_IN
VITC_REC
VITC_MUT
R68015
L68001
C68031
C68032
C68033
R68016
R68017
Q68001
D5V
IC68013
MC74HC4053FR
IC68007
MC74HC04AF-R
C68036
AG-7700 ONLY
R68018
100K
VITC_ON
A5V
TP68003
C68034
0.01
R68019
3300
D68001
MA151K-TW
R68022
1300(G)
D68002
R68020
1500
R68021
390K
R68023
1200
C68035
0.1
VITC_IN
R68025
100K
R68026
5600
C68037
16V10
R68027
10K
IC68012
AN1319S
R68024
100K
SYNC_SEL1
SYNC_SEL2
IC68014
MC74HC4053FR
C68038
0.01
C68039
0.01
TC_HSS
REC_HSS
ENCODE_SYNC
REC_SYNC
R68028
12K
R68029
10K
REC_V
IC68016
AN6912S
R68030
22K
C68040
1000P
R68031
12K
PB_SYNC_N
R68049
VR68001
C68042
R68032
C68043
C68041
IC68015
CX
RX
C68044
IC68017
NC
RS
Q1
Q2
Q3
Q4
Q5
D
F
VSS
VDD
RV
MO
M2
MI
A
B
C
R68033
D68003
R68034
C68045
R68035
R68036
R68037
SW68001
OFF
ALL DEL
ON
PB_SYNC_N
C68027
0.01
R68038
47K
D68005
MA151K-TW
R68039
10K(G)
C68046
16V10
R68040
330(G)
D68004
MA151K-TW
C68047
0.1
R68041
220K
R68042
1000
R68043
1000
R68044
22K
C68048
1000P
R68045
10K
R68046
12K
R68047
12K
PB_Y_N
PB_SYNC_N
PB_V_N
W68015
A_GND
DEM_Y_LINE_IN
REC_HSS
ENCODE_SYNC
D_GND

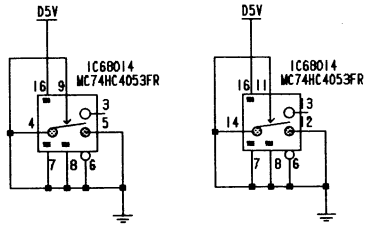


P68001
VJP3507C060

	A	NO	B	
D_GND	D_GND	1	D_GND	D_GND
FWD_L	FWD(L)	2	A0L	A0L
TC_CLK	TC_CLK	3	A1L	A1L
DMS_MODE_L	DMS_MODE(L)	4	A2L	A2L
A_GND	A_GND	5	A3L	A3L
LTC_EXT_IN	LTC_EXT_IN	6	A4L	A4L
A_GND	A_GND	7	A5L	A5L
TCG_TCR_ON_L	TCG/TCR_ON(L)	8	A6L	A6L
LTC_OUT	LTC_OUT	9	A7L	A7L
LTC_PB_X	LTC_PB(X)	10	D0L	D0L
LTC_PB_G	LTC_PB(G)	11	D1L	D1L
REC_HSS	REC_HSS	12	D2L	D2L
A_GND	A_GND	13	D3L	D3L
VITC_REC	VITC_REC	14	D4L	D4L
A_GND	A_GND	15	D5L	D5L
VITC_MUT	VITC_MUT	16	D6L	D6L
A_GND	A_GND	17	D7L	D7L
DEM_Y_LINE_IN	DEM_Y/LINE_IN	18	CSL(L)	CSL_L
A_GND	A_GND	19	OEL(L)	OEL_L
VITC_SEL	VITC_SEL	20	WEL(L)	WEL_L
A_GND	A_GND	21	TCINT(L)	TCINT_L
ENCODE_SYNC	ENCODE_SYNC	22	IFINT(L)	IFINT_L
A_GND	A_GND	23	CTL_PULSE	CTL_PULSE_H
DMS_OK_L	DMS_OK(L)	24		
ROTARY_SW	ROTARY_SW	25		
A_GND	A_GND	26	A_GND	A_GND
A_GND	A_GND	27	A_GND	A_GND
A5V	A5V	28	A5V	A5V
D5V	D5V	29	D5V	D5V
D5V	D5V	30	D5V	D5V

TIME CODE DC VOLTAGE CHART

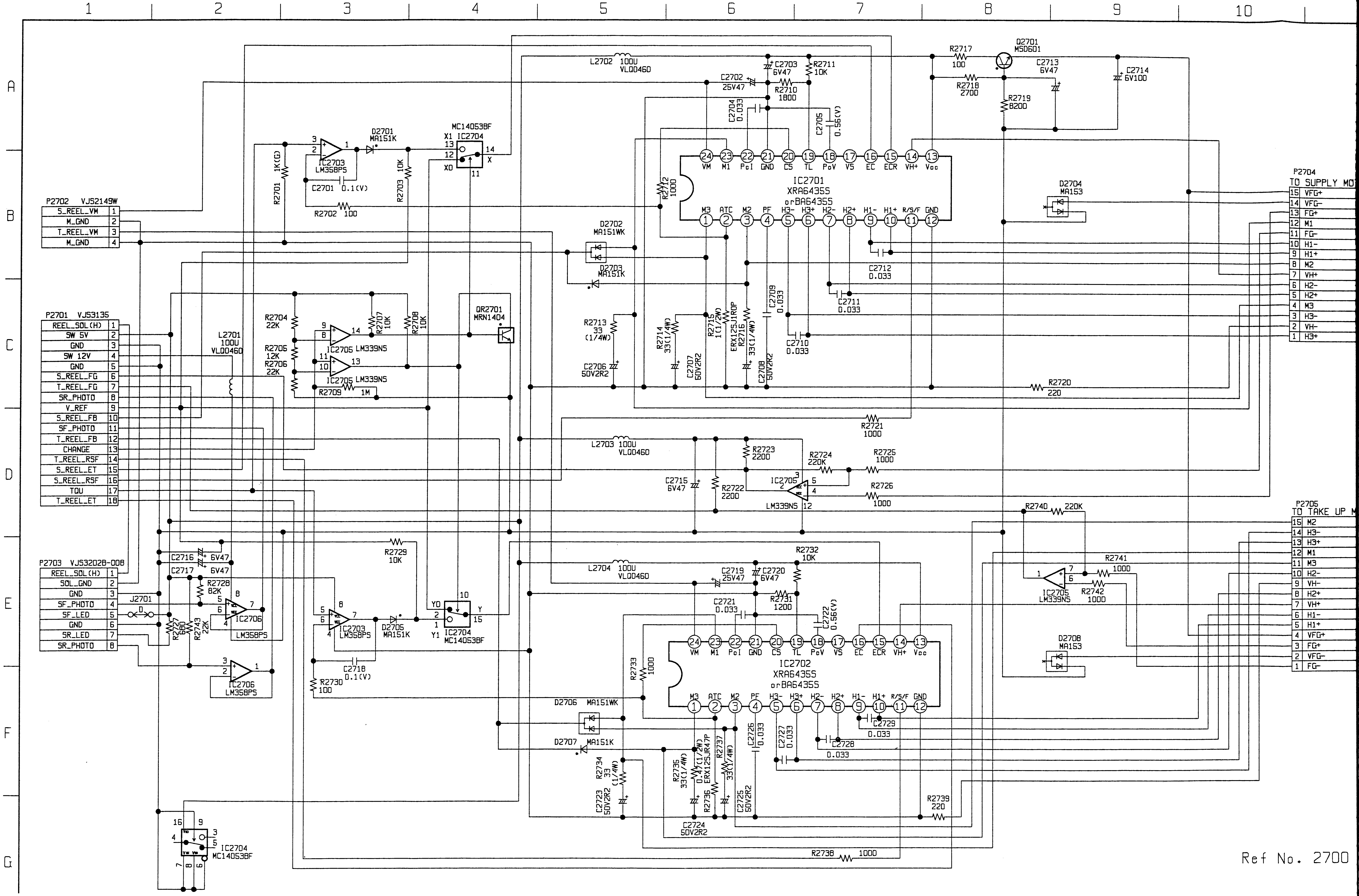
REF. NO.	P61004									
MODE	1A	2A	3A	4A	5A	6A	7A	8A	9A	10A
STOP	0	0.1	2.6	0.1	0	0	0	0	0	0
REC	0	0.1	2.6	0.1	0	0	0	0	0.5	0.5
REF. NO.	P61004									
MODE	11A	12A	13A	14A	15A	16A	17A	18A	19A	20A
STOP	0	4.6	0	0	0	0	0	0	0	0
REC	0	4.6	0	0	0	0.2	0	0.9	0	0
REF. NO.	P61004									
MODE	21A	22A	23A	24A	25A	26A	27A	28A	29A	30A
STOP	0	0	0	5.1	5.1	0	0	5.1	5.1	5.1
REC	0	0	0	5.1	5.1	0	0	5.1	5.1	5.1
REF. NO.	P61004									
MODE	1B	2B	3B	4B	5B	6B	7B	8B	9B	10B
STOP	0	2.7	2.8	2.6	2.7	2.6	2.9	2.5	3.5	4.7
REC	0	2.7	2.8	2.6	2.7	2.6	2.9	2.5	3.5	4.7
REF. NO.	P61004									
MODE	11B	12B	13B	14B	15B	16B	17B	18B	19B	20B
STOP	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	2.1	5.1
REC	5.1	5.1	5.1	5.0	5.0	5.0	5.0	5.1	2.1	5.0
REF. NO.	P61004									
MODE	21B	22B	23B	24B	25B	26B	27B	28B	29B	30B
STOP	5.1	5.1	0	–	–	0	0	5.1	5.1	5.1
REC	5.1	5.1	0	–	–	0	0	5.1	5.1	5.1


D5V
IC68014
MC74HC4053FR
16
9
3
4
5
7
8
6
D5V
IC68014
MC74HC4053FR
16
11
3
14
2
7
8
6

*=REFER TO THE COMPARISON CHART

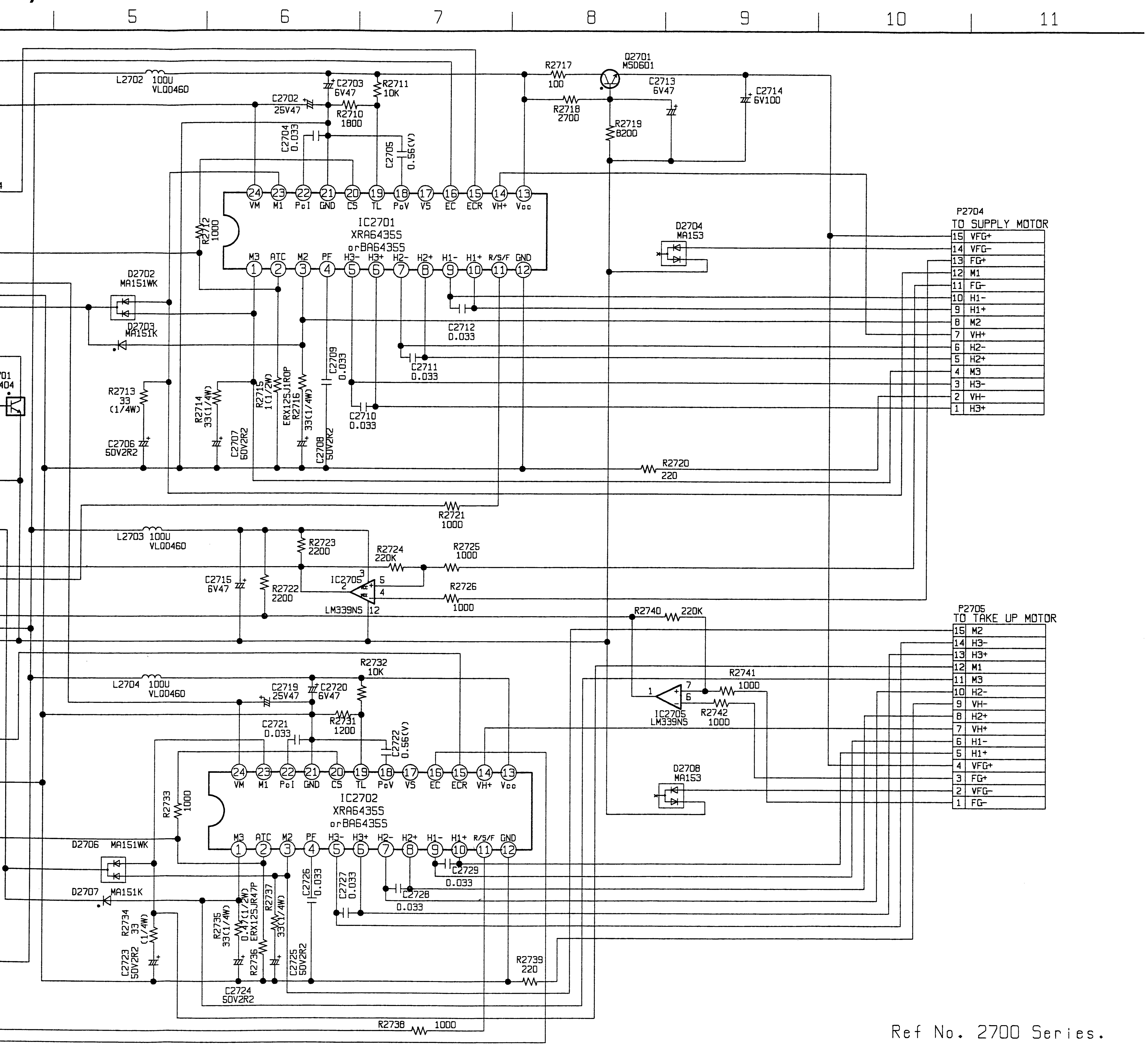
Ref No.68000 Series.

REEL DRIVE SCHEMATIC DIAGRAM (E14: Page CBA-15)


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
P2702 VJS2149W
1 S_REEL_VM
2 M_GND
3 T_REEL_VM
4 M_GND
P2701 VJS3135
1 REEL_SOL(H)
2 SW 5V
3 GND
4 SW 12V
5 GND
6 S_REEL_FG
7 T_REEL_FG
8 SR_PHOTO
9 V_REF
10 S_REEL_FB
11 SF_PHOTO
12 T_REEL_FB
13 CHANGE
14 T_REEL_RSF
15 S_REEL_ET
16 S_REEL_RSF
17 TQU
18 T_REEL_ET
P2703 VJS3202B-008
1 REEL_SOL(H)
2 SOL_GND
3 GND
4 SF_PHOTO
5 SF_LED
6 GND
7 SR_LED
8 SR_PHOTO
J2701
IC2703 LM358PS
R2701 1K(G)
C2701 0.1(V)
R2702 100
D2701 MA151K
MC14053BF IC2704
X1
X0
X
R2703 10K
L2702 100U VL00460
C2702 25V47
C2703 6V47
R2711 10K
R2710 1800
C2704 0.033
C2705 0.56(V)
R2717 100
Q2701 MSD601
R2718 2700
R2719 B200
C2713 6V47
C2714 6V100
IC2701 XRA6435S orBA6435S
VM M1 PcI GND CS TL PoV VS EC ECR VH+ Vcc
M3 ATC M2 PF H3- H3+ H2- H2+ H1- H1+ R/S/F GND
R2712 1000
D2702 MA151WK
D2703 MA151K
D2704 MA153
C2712 0.033
C2711 0.033
C2709 0.033
C2710 0.033
R2713 33 (1/4W)
R2714 33(1/4W)
R2715 1(1/2W)
ERX12SJ1R0P R2716 33(1/4W)
C2706 50V2R2
C2707 50V2R2
C2708 50V2R2
R2720 220
R2721 1000
P2704 TO SUPPLY MO
15 VFG+
14 VFG-
13 FG+
12 M1
11 FG-
10 H1-
9 H1+
8 M2
7 VH+
6 H2-
5 H2+
4 M3
3 H3-
2 VH-
1 H3+
R2704 22K
R2705 12K
R2706 22K
IC2705 LM339NS
R2707 10K
R2708 10K
R2709 1M
QR2701 MRN1404
L2701 100U VL00460
L2703 100U VL00460
R2723 2200
R2722 2200
C2715 6V47
R2724 220K
R2725 1000
R2726 1000
IC2705 LM339NS
R2740 220K
R2741 1000
R2742 1000
IC2705 LM339NS
P2705 TO TAKE UP M
15 M2
14 H3-
13 H3+
12 M1
11 M3
10 H2-
9 VH-
8 H2+
7 VH+
6 H1-
5 H1+
4 VFG+
3 FG+
2 VFG-
1 FG-
C2716 6V47
C2717 6V47
R2728 82K
IC2706 LM358PS
R2727 680
R2743 22K
R2729 10K
IC2703 LM358PS
D2705 MA151K
IC2704 MC14053BF
Y0
Y1
Y
C2718 0.1(V)
R2730 100
L2704 100U VL00460
C2719 25V47
C2720 6V47
R2732 10K
R2731 1200
C2721 0.033
C2722 0.56(V)
IC2702 XRA6435S orBA6435S
R2733 1000
D2706 MA151WK
D2707 MA151K
D2708 MA153
C2729 0.033
C2728 0.033
C2726 0.033
C2727 0.033
R2734 33 (1/4W)
R2735 33(1/4W)
0.47(1/2W) ERX12SJR47P R2736
R2737 33(1/4W)
C2723 50V2R2
C2724 50V2R2
C2725 50V2R2
R2739 220
R2738 1000
IC2704 MC14053BF

Ref No. 2700

-15)



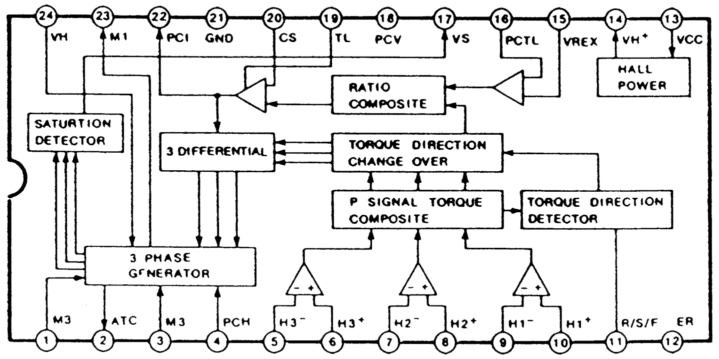
5
6
7
8
9
10
11
L2702 100U VL00460
C2702 25V47
C2703 6V47
R2711 10K
R2710 1800
C2704 0.033
C2705 0.56(V)
R2717 100
Q2701 MSD601
R2718 2700
R2719 8200
C2713 6V47
C2714 6V100
IC2701
XRA6435S
orBA6435S
VM M1 PcI GND CS TL PoV VS EC ECR VH+ Vcc
M3 ATC M2 PF H3- H3+ H2- H2+ H1- H1+ R/S/F GND
R2712 1000
D2702 MA151WK
D2703 MA151K
R2713 33 (1/4W)
C2706 50V2R2
R2714 33(1/4W)
C2707 50V2R2
R2715 1(1/2W)
ERX12SJ1R0P
R2716 33(1/4W)
C2708 50V2R2
C2709 0.033
C2710 0.033
C2711 0.033
C2712 0.033
D2704 MA153
P2704
TO SUPPLY MOTOR
15 VFG+
14 VFG-
13 FG+
12 M1
11 FG-
10 H1-
9 H1+
8 M2
7 VH+
6 H2-
5 H2+
4 M3
3 H3-
2 VH-
1 H3+
R2720 220
R2721 1000
L2703 100U VL00460
R2723 2200
R2724 220K
R2725 1000
C2715 6V47
R2722 2200
IC2705
LM339NS
R2726 1000
R2740 220K
R2741 1000
R2742 1000
IC2705 LM339NS
P2705
TO TAKE UP MOTOR
15 M2
14 H3-
13 H3+
12 M1
11 M3
10 H2-
9 VH-
8 H2+
7 VH+
6 H1-
5 H1+
4 VFG+
3 FG+
2 VFG-
1 FG-
R2732 10K
L2704 100U VL00460
C2719 25V47
C2720 6V47
R2731 1200
C2721 0.033
C2722 0.56(V)
IC2702
XRA6435S
orBA6435S
R2733 1000
D2708 MA153
D2706 MA151WK
D2707 MA151K
C2729 0.033
C2728 0.033
C2726 0.033
C2727 0.033
R2734 33 (1/4W)
C2723 50V2R2
R2735 33(1/4W)
0.47(1/2W) ERX12SJR47P
R2736
R2737 33(1/4W)
C2725 50V2R2
C2724 50V2R2
R2739 220
R2738 1000

Ref No. 2700 Series.

REEL DRIVE DC VOLTAGE CHART

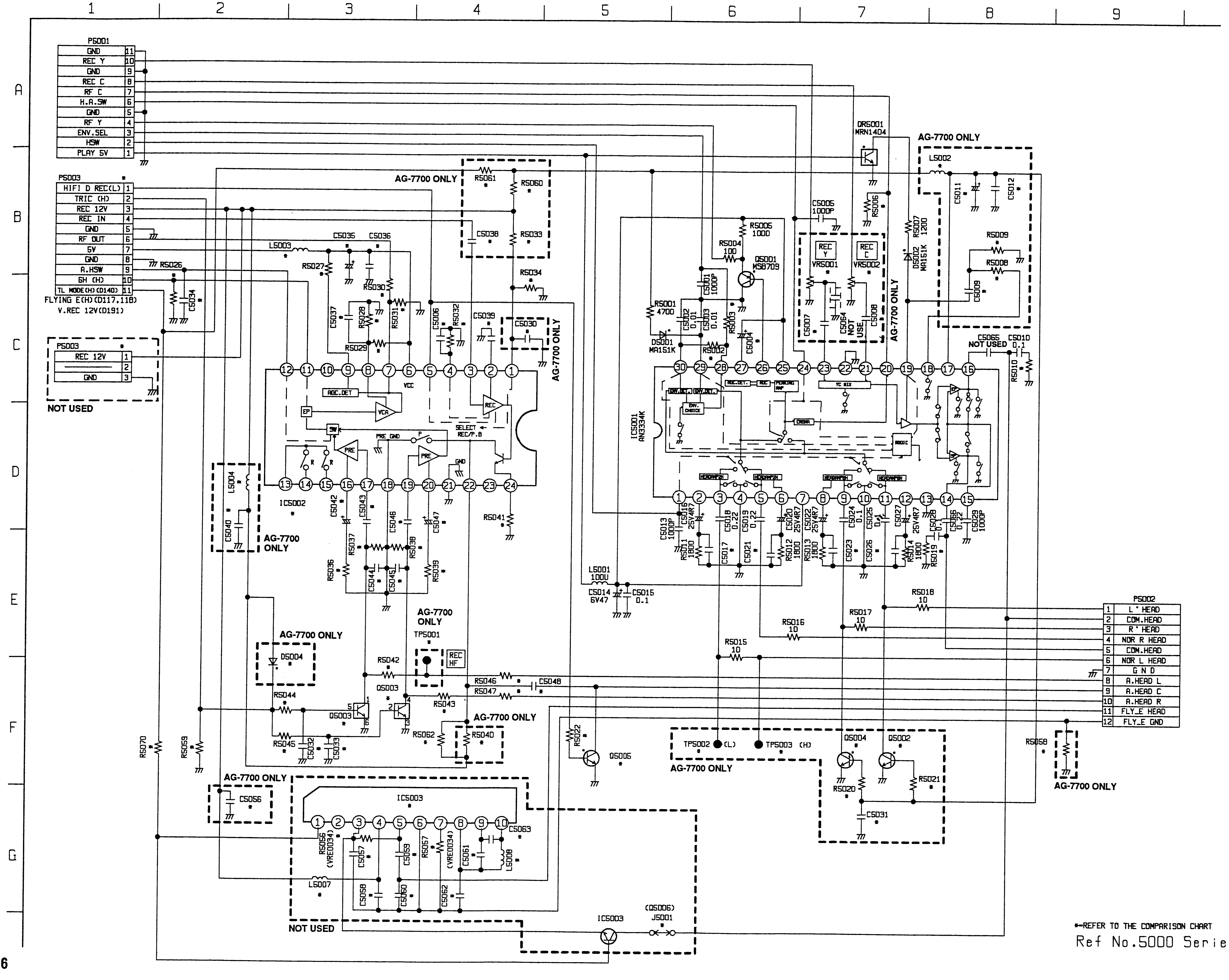
REF. NO.	IC2701									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	1.4	0.1	1.3	1.4	2.5	2.4	2.5	2.4	2.4	2.5
REC	2.3	0.1	2.5	1.4	2.5	2.5	2.5	2.5	2.5	2.5
REF. NO.	IC2701									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	0	0	4.7	3.4	2.4	2.1	4.1	0.6	1.7	0.1
REC	0	0	4.7	3.4	2.4	2.2	4.1	0.6	0.7	0.1
REF. NO.	IC2701									
MODE	21	22	23	24						
STOP	0	0.7	0.5	5.1						
REC	0	0.7	1.4	5.2						
REF. NO.	IC2702									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0.5	0.1	2.3	1.4	2.4	2.5	2.5	2.5	2.5	2.4
REC	1.5	0.1	1.5	1.4	2.5	2.5	2.5	2.5	2.5	2.5
REF. NO.	IC2702									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	0	0	4.7	3.4	2.6	2.3	4.1	0.6	0.5	0.1
REC	0	0	4.7	3.4	2.5	2.3	4.1	0.6	0.5	0.1
REF. NO.	IC2702									
MODE	21	22	23	24						
STOP	0	0.7	2.3	5.2						
REC	0	0.7	1.7	5.2						
REF. NO.	IC2703									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0.2	0.1	0	0.1	0.1	3.0	4.7		
REC	3.5	0.1	0.1	0	0.1	0.1	2.9	4.7		
REF. NO.	IC2704									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	2.6	2.4	0	0	0	0	0	0	0	4.7
REC	2.5	2.4	0	0	0	0	0	0	0	4.7
REF. NO.	IC2704									
MODE	11	12	13	14	15	16				
STOP	0.1	2.4	2.4	2.4	2.6	4.7				
REC	0.1	2.4	3.1	2.4	2.6	4.7				
REF. NO.	IC2705									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0.1	0.1	4.7	2.2	2.1	2.2	2.1	2.9	2.4	1.8
REC	2.4	2.8	4.7	2.1	2.1	2.1	2.1	2.9	2.4	1.8
REF. NO.	IC2705									
MODE	11	12	13	14						
STOP	2.4	0	4.7	0.1						
REC	2.4	0	4.7	0.1						
REF. NO.	IC2706									
MODE	1	2	3	4	5	6	7	8		
STOP	4.6	4.6	4.6	0	2.4	2.4	2.4	11.7		
REC	4.6	4.6	4.6	0	2.4	2.4	2.4	11.7		
REF. NO.	Q2701									
MODE	E	C	B							
STOP	2.8	3.8	3.4							
REC	2.8	3.8	3.4							
REF. NO.	QR2701									
MODE	E	C	B							
STOP	0	4.7	0.1							
REC	0	4.7	0.1							

IC2701,2702
XRA6435S(BA6435S)



VM
M1
PCI
GND
CS
TL
PCV
VS
PCTL
VREX
VH+
VCC
HALL POWER
RATIO COMPOSITE
SATURTION DETECTOR
3 DIFFERENTIAL
TORQUE DIRECTION CHANGE OVER
P SIGNAL TORQUE COMPOSITE
TORQUE DIRECTION DETECTOR
3 PHASE GENERATOR
M3
ATC
M3
PCH
H3-
H3+
H2-
H2+
H1-
H1+
R/S/F
ER

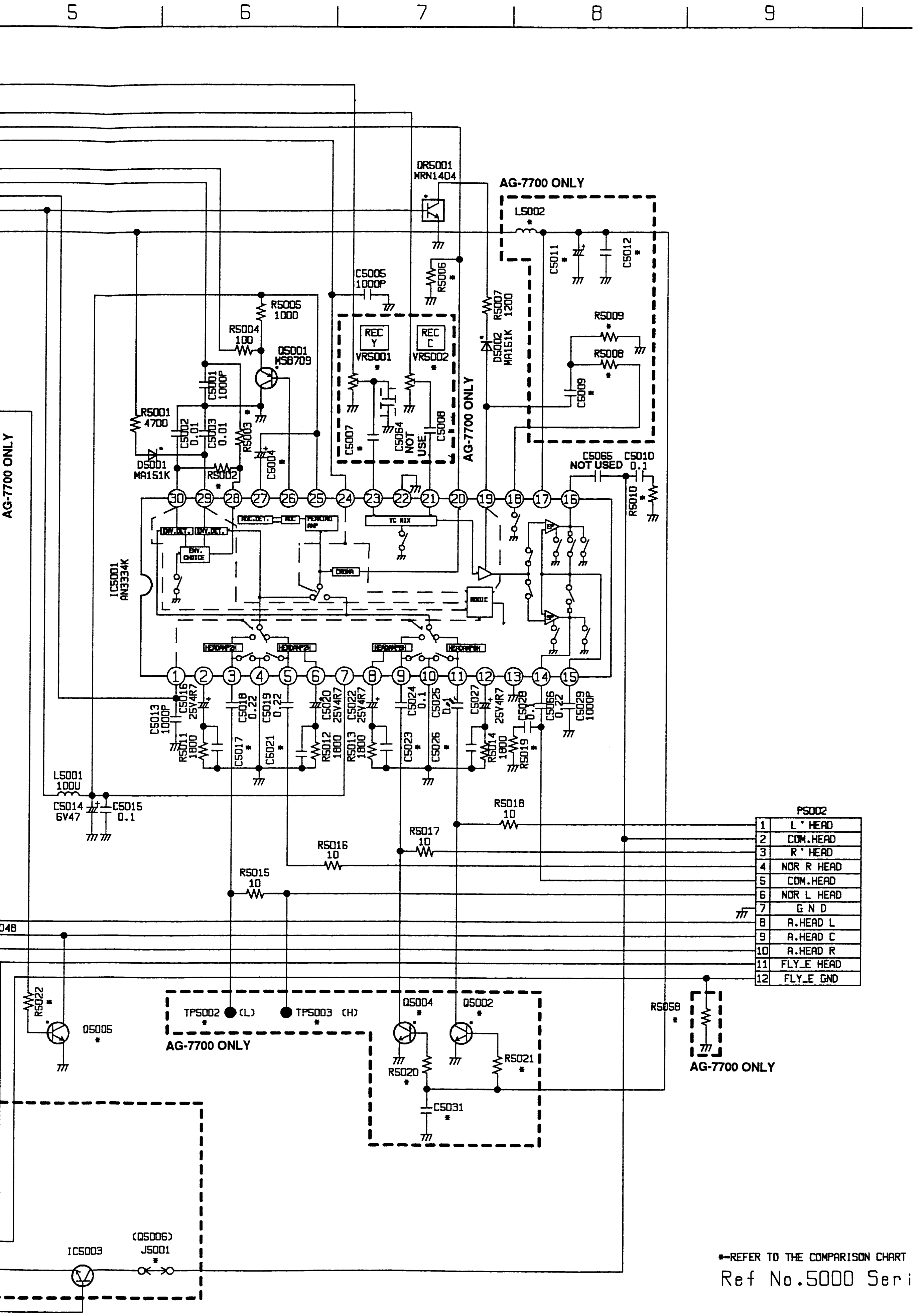
HEAD AMP SCHEMATIC DIAGRAM (E15: Page CBA-13)


1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
P5001
GND 11
REC Y 10
GND 9
REC C 8
RF C 7
H.A.SW 6
GND 5
RF Y 4
ENV.SEL 3
HSW 2
PLAY 5V 1
P5003
HIFI D REC(L) 1
TRIC (H) 2
REC 12V 3
REC IN 4
GND 5
RF OUT 6
5V 7
GND 8
A.HSW 9
6H (H) 10
TL MODE(H)(D140) 11
FLYING E(H)(D117,118)
V.REC 12V(D191)
P5003
REC 12V 1
2
GND 3
NOT USED
AG-7700 ONLY
IC5002
IC5001 AN3334K
DR5001 MRN1404
Q5001 MSB709
VR5001
VR5002
REC Y
REC C
L5001 100U
C5014 6V47
C5015 0.1
C5065 NOT USED
C5010 0.1
TP5001
REC HF
TP5002 (L)
TP5003 (H)
Q5002
Q5003
Q5004
Q5005
D5001 MA151K
D5002 MA151K
D5004
IC5003
(Q5006)
J5001
AGC.DET
VCA
PRE
REC
SELECT REC/P.B
P5002
1 L' HEAD
2 COM.HEAD
3 R' HEAD
4 NOR R HEAD
5 COM.HEAD
6 NOR L HEAD
7 GND
8 A.HEAD L
9 A.HEAD C
10 A.HEAD R
11 FLY_E HEAD
12 FLY_E GND

*-REFER TO THE COMPARISON CHART

Ref No.5000 Series.

	AG-7
C5004	50V
C5006	0.
C5007	0.
C5008	0.
C5009	1800P(.
C5011	16V
C5012	0.0
C5017	6
C5021	6
C5023	2
C5026	2
C5030	0.
C5031	0.
C5032	0.
C5033	0.
C5034	1000
C5035	6V
C5036	0.
C5037	0.01
C5038	0.01
C5039	0.
C5040	0.
C5042	50
C5043	47
C5044	10
C5045	10
C5046	47
C5047	50
C5048	0.0
C5056	0.
D5004	MA151
IC5002	BA77
L5002	10
L5003	10
L5004	10
P5003	VJP3
Q5002	2SC2
Q5003	XN450
Q5004	2SC2
Q5005	2SC2
R5002	68
R5003	22
R5006	15
R5008	—
R5009	47
R5010	1
R5019	33
R5020	330
R5021	330
R5022	150
R5026	0
R5027	33
R5028	24K
R5029	27K
R5030	39
R5031	10
R5032	47
R5033	27
R5034	15
R5036	330
R5037	150
R5038	150
R5039	330
R5040	220(1
R5041	10
R5042	10
R5043	10
R5044	10
R5045	10
R5046	47
R5047	47
R5056	—
R5057	—
R5058	0
R5059	47
R5060	—
R5061	0
R5062	220(1
R5070	0
TP5001	VJR0
TP5002	VJR0
TP5003	VJR0
VR5001	2KB(
VR5002	2KB(


5
6
7
8
9
AG-7700 ONLY
QR5001
MRN1404
L5002
C5011
C5012
C5005
1000P
R5006
R5005
1000
R5004
100
Q5001
MSB709
REC Y
VR5001
REC C
VR5002
R5007
1200
D5002
MA151K
R5009
R5008
C5009
C5001
1000P
R5001
4700
C5002
0.01
C5003
0.01
R5003
C5004
C5007
C5064
NOT USE
C5008
D5001
MA151K
R5002
C5065
NOT USED
C5010
0.1
R5010
IC5001
AN3334K
ENV.DET.
ENV.DET.
ENV. CHOICE
REC.DET.
REC
PEAKING AMP
YC MIX
CHROMA
ROGIC
HEADAMP2H
HEADAMP2H
HEADAMP6H
HEADAMP6H
C5013
1000P
C5016
25V4R7
C5018
0.22
C5019
0.22
C5020
25V4R7
C5022
25V4R7
C5024
0.1
C5025
0.1
C5027
25V4R7
C5028
0.1
C5066
0.22
C5029
1000P
R5011
1800
C5017
C5021
R5012
1800
R5013
1800
C5023
C5026
R5014
1800
R5019
L5001
100U
C5014
6V47
C5015
0.1
R5018
10
R5017
10
R5016
10
R5015
10
P5002
1 L' HEAD
2 COM.HEAD
3 R' HEAD
4 NOR R HEAD
5 COM.HEAD
6 NOR L HEAD
7 G N D
8 A.HEAD L
9 A.HEAD C
10 A.HEAD R
11 FLY_E HEAD
12 FLY_E GND
R5022
Q5005
TP5002 (L)
TP5003 (H)
AG-7700 ONLY
Q5004
Q5002
R5020
R5021
C5031
R5058
AG-7700 ONLY
(Q5006)
IC5003
J5001
048

*=REFER TO THE COMPARISON CHART

Ref No.5000 Series.

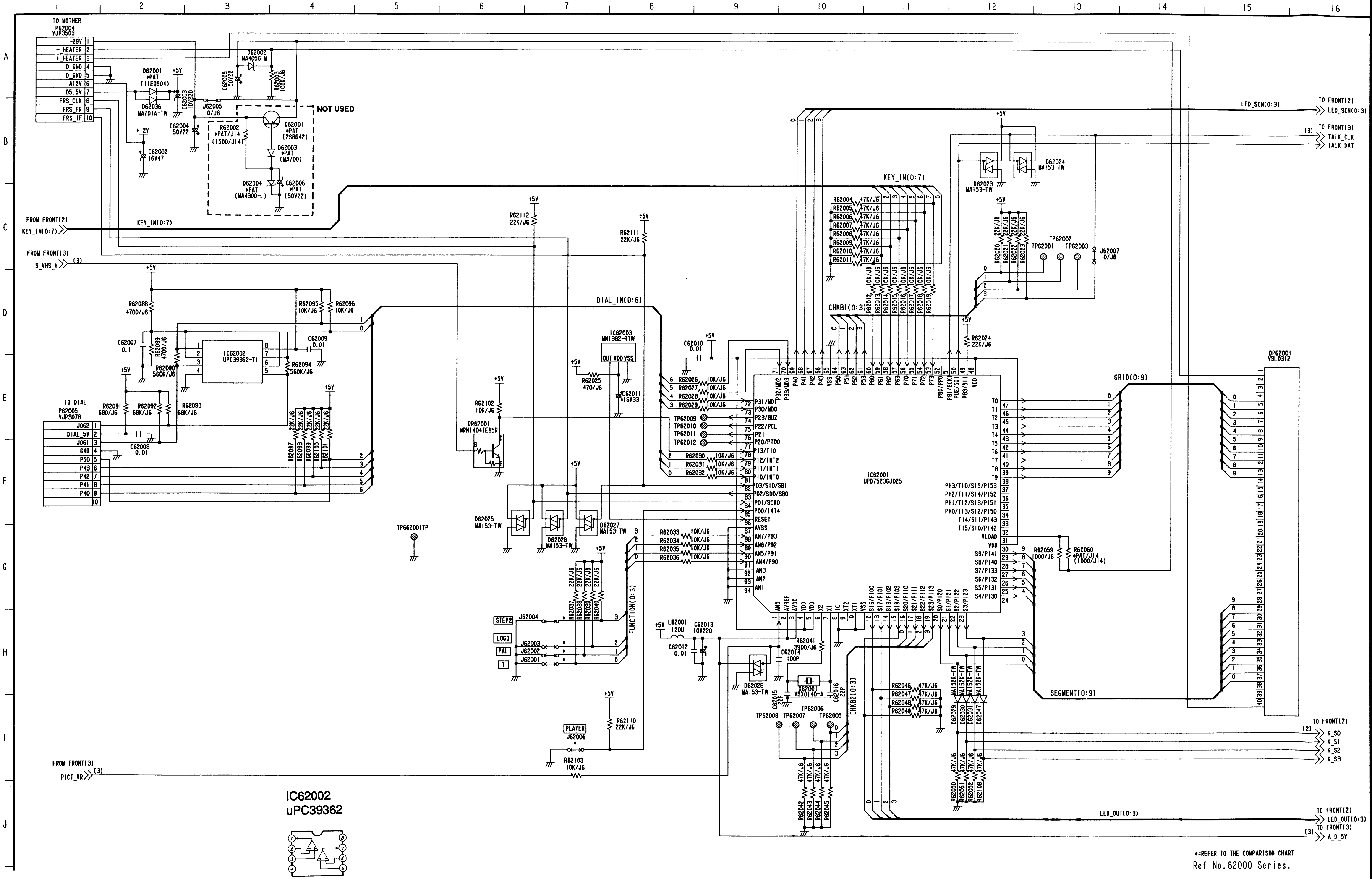
	AG-7700	AG-7600
C5004	50V0.1	50V1
C5006	0.01	0.01
C5007	0.01	—
C5008	0.01	—
C5009	1800P(J)(NP0)	—
C5011	16V22	—
C5012	0.047	—
C5017	8P	8P
C5021	8P	8P
C5023	2P	2P
C5026	2P	2P
C5030	0.01	—
C5031	0.1	—
C5032	0.1	0.1
C5033	0.1	0.1
C5034	1000P(K)	1000P(K)
C5035	6V47	6V47
C5036	0.01	0.01
C5037	0.01(K)	0.01(K)
C5038	0.01(K)	—
C5039	0.01	0.01
C5040	0.01	—
C5042	50V1	50V1
C5043	470P	470P
C5044	100P	100P
C5045	100P	100P
C5046	470P	470P
C5047	50V1	50V1
C5048	0.0047	0.0047
C5056	0.01	—
D5004	MA151K-TW	—
IC5002	BA7740FS	BA7740FS
L5002	100U	—
L5003	100U	100U
L5004	100U	—
P5003	VJP3091	VJP3091
Q5002	2SC2295	—
Q5003	XN4504-TW	XN4504-TW
Q5004	2SC2295	—
Q5005	2SC2295	2SC2295
R5002	680K	680K
R5003	22K	22K
R5006	1500	1500
R5008	—	—
R5009	470	—
R5010	1	1
R5019	330	390
R5020	3300	—
R5021	3300	—
R5022	1500	1500
R5026	0	0
R5027	33K	33K
R5028	24K(G)	24K(G)
R5029	27K(G)	27K(G)
R5030	390	390
R5031	10K	10K
R5032	47K	47K
R5033	27K	—
R5034	15K	15K
R5036	3300	3300
R5037	1500	1500
R5038	1500	1500
R5039	3300	3300
R5040	220(1/4W)	—
R5041	10	10
R5042	10	10
R5043	10	10
R5044	10K	10K
R5045	10K	10K
R5046	470	470
R5047	470	470
R5056	—	—
R5057	—	—
R5058	0	—
R5059	47K	47K
R5060	—	—
R5061	0	—
R5062	220(1/4W)	—
R5070	0	—
TP5001	VJR0098	—
TP5002	VJR0098	—
TP5003	VJR0098	—
VR5001	2KB(CA)	—
VR5002	2KB(CA)	—

D-ERJ6GEY0R00V

HEAD AMP DC VOLTAGE CHART

REF. NO.	IC5001									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	2.5	0.8	0.6	0	0.6	0.8	4.9	0.8	0.6	0
REC	2.5	0	0	0	0	0	0.3	0	0	0
REF. NO.	IC5001									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	0.6	0.8	0	0	0	0	0	0	0.6	2.3
REC	0	0	0	5.9	5.8	5.9	11.2	0	2.7	0
REF. NO.	IC5001									
MODE	21	22	23	24	25	26	27	28	29	30
STOP	0	0	0	5.0	4.9	1.8	2.4	0	1.9	1.9
REC	4.6	0	4.6	0	0.3	0	0	0	11.1	3.5
REF. NO.	IC5002									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0.3	0.5	2.8	1.2	3.7	4.9	2.4	2.3	4.9	0
REC	4.0	1.3	2.7	1.3	0.1	4.9	3.7	2.3	4.9	0
REF. NO.	IC5002									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	0	2.5	0	0	0	0.8	0.7	0	0.7	0.8
REC	0	2.5	0	0	0	0	0	0	0	0
REF. NO.	IC5002									
MODE	21	22	23	24						
STOP	0	0	0	0						
REC	0	7.3	0	0.6						
REF. NO.	Q5001			Q5002						
MODE	E	C	B	E	C	B				
STOP	2.4	0	1.8	0	0	0				
REC	0.3	0	0	0	0	0.8				
REF. NO.	Q5003						Q5004			
MODE	1	2	3	4	5	6	E	C	B	
STOP	0	0	0	0	0	0	0	0	0	
REC	0	0.7	0	0	0.7	0	0	0	0.8	
REF. NO.	Q5005			Q5006						
MODE	E	C	B	E	C	B				
STOP	0	0	0.8	0	0	5.0				
REC	0	0	0	0	2.5	0.3				

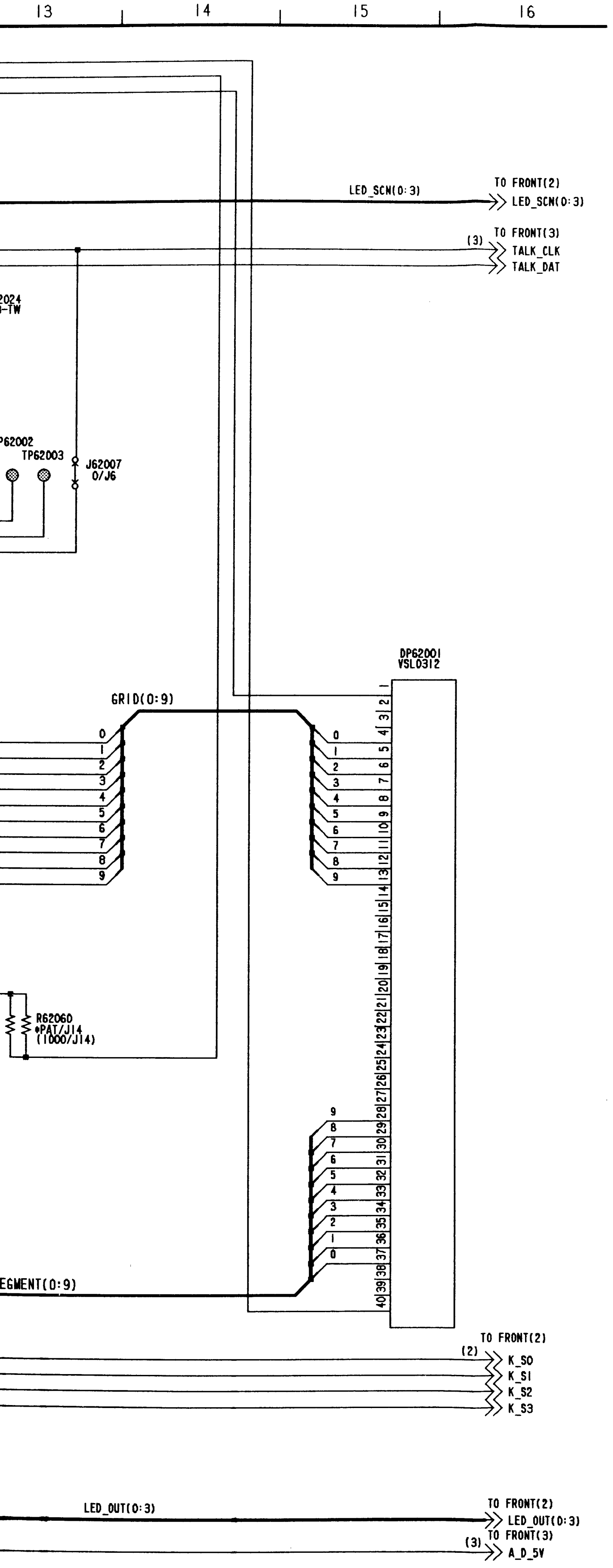
FRONT-1 SCHEMATIC DIAGRAM 1/4 (E16: Page CBA-12)



TO MOTHER
P62004
VJP3503
-29V
-HEATER
+HEATER
D GND
D GND
A12V
D5.5V
FRS CLK
FRS FR
FRS IF
D62001
*PAT
(11EQS04)
D62036
MA701A-TW
C62003
10V220
J62005
0/J6
C62004
50V22
C62005
50V22
D62002
MA4056-M
R62001
10K/J6
NOT USED
Q62001
*PAT
(2SB642)
R62002
*PAT/J14
(1500/J14)
D62003
*PAT
(MA700)
D62004
*PAT
(MA4300-L)
C62006
*PAT
(50V22)
+12V
C62002
16V47
FROM FRONT(2)
KEY_IN(0:7)
FROM FRONT(3)
S_VHS_H
R62088
4700/J6
R62089
4700/J6
C62007
0.1
R62090
560K/J6
IC62002
UPC39362-T1
R62095
10K/J6
R62096
10K/J6
C62009
0.01
R62094
560K/J6
TO DIAL
P62005
VJP3078
J062
DIAL_5V
J061
GND
P50
P43
P42
P41
P40
R62091
680/J6
R62092
68K/J6
R62093
68K/J6
C62008
0.01
R62097
R62098
R62099
R62100
R62101
22K/J6
DIAL_IN(0:6)
R62112
22K/J6
R62111
22K/J6
R62102
10K/J6
QR62001
MRN1404TE85R
TP62001TP
D62025
MA153-TW
D62026
MA153-TW
D62027
MA153-TW
IC62003
MN1382-RTW
OUT VDD VSS
R62025
470/J6
C62011
16V33
C62010
0.01
R62026
R62027
R62028
R62029
10K/J6
TP62009
TP62010
TP62011
TP62012
R62030
R62031
R62032
10K/J6
R62033
R62034
R62035
R62036
10K/J6
R62037
R62038
R62039
R62040
22K/J6
FUNCTION(0:3)
STEP2
LOGO
PAL
T
J62004
J62003
J62002
J62001
PLAYER
J62006
R62110
22K/J6
R62103
10K/J6
FROM FRONT(3)
PICT_VR
IC62001
UPD75236J025
P31/MD1
P30/MD0
P23/BUZ
P22/PCL
P21
P20/PT00
P13/TI0
P12/INT2
P11/INT1
P10/INT0
P03/SI0/SB1
P02/SO0/SB0
P01/SCK0
P00/INT4
RESET
AVSS
AN7/P93
AN6/P92
AN5/P91
AN4/P90
AN3
AN2
AN1
AN0
AVREF
AVDD
VDD
X1
X2
IC
XT2
XT1
VSS
S16/P100
S17/P101
S18/P102
S19/P103
S20/P110
S21/P111
S22/P112
S23/P113
S0/P120
S1/P121
S2/P122
S3/P123
S4/P130
S5/P131
S6/P132
S7/P133
S8/P140
S9/P141
VDD
VLOAD
T15/SI0/P142
T14/SI1/P143
PH0/T13/SI2/P150
PH1/T12/SI3/P151
PH2/T11/SI4/P152
PH3/T10/SI5/P153
T0
T1
T2
T3
T4
T5
T6
T7
T8
T9
P32/MD2
P33/MD3
P40
P41
P42
P43
VSS
P50
P51
P52
P53
P60
P61
P62
P63
P70
P71
P72
P73
P80/PPO
P81/SCK
P82/SO
P83/SI
VDD
KEY_IN(0:7)
R62004
R62005
R62006
R62007
R62008
R62009
R62010
R62011
47K/J6
R62012
R62013
R62014
R62015
R62016
R62017
R62018
R62019
10K/J6
CHKB1(0:3)
R62024
22K/J6
R62020
R62021
R62022
R62023
22K/J6
TP62001
TP62002
TP62003
J62007
0/J6
D62023
MA153-TW
D62024
MA153-TW
LED_SCN(0:3)
TO FRONT(2)
LED_SCN(0:3)
TO FRONT(3)
TALK_CLK
TALK_DAT
GRID(0:9)
DP62001
VSL0312
R62059
1000/J6
R62060
*PAT/J14
(1000/J14)
SEGMENT(0:9)
L62001
120U
C62013
10V220
C62012
0.01
R62041
3900/J6
C62014
100P
D62028
MA153-TW
X62001
VSX0140-A
C62015
22P
C62016
22P
TP62008
TP62007
TP62006
TP62005
CHKB2(0:3)
R62042
R62043
R62044
R62045
47K/J6
R62046
R62047
R62048
R62049
47K/J6
D62029
D62030
D62031
D62047
MA152K-TW
R62050
R62051
R62052
R62108
47K/J6
TO FRONT(2)
K_S0
K_S1
K_S2
K_S3
LED_OUT(0:3)
TO FRONT(2)
LED_OUT(0:3)
TO FRONT(3)
A_D_5V
IC62002
uPC39362

*=REFER TO THE COMPARISON CHART

Ref No.62000 Series.


13
14
15
16
LED_SCN(0:3)
TO FRONT(2)
LED_SCN(0:3)
(3)
TO FRONT(3)
TALK_CLK
TALK_DAT
2024
I-TW
P62002
TP62003
J62007
0/J6
DP62001
VSL0312
GRID(0:9)
R62060
*PAT/J14
(1000/J14)
EGMENT(0:9)
TO FRONT(2)
(2)
K_S0
K_S1
K_S2
K_S3
LED_OUT(0:3)
TO FRONT(2)
LED_OUT(0:3)
(3)
TO FRONT(3)
A_D_5V

*=REFER TO THE COMPARISON CHART

Ref No.62000 Series.

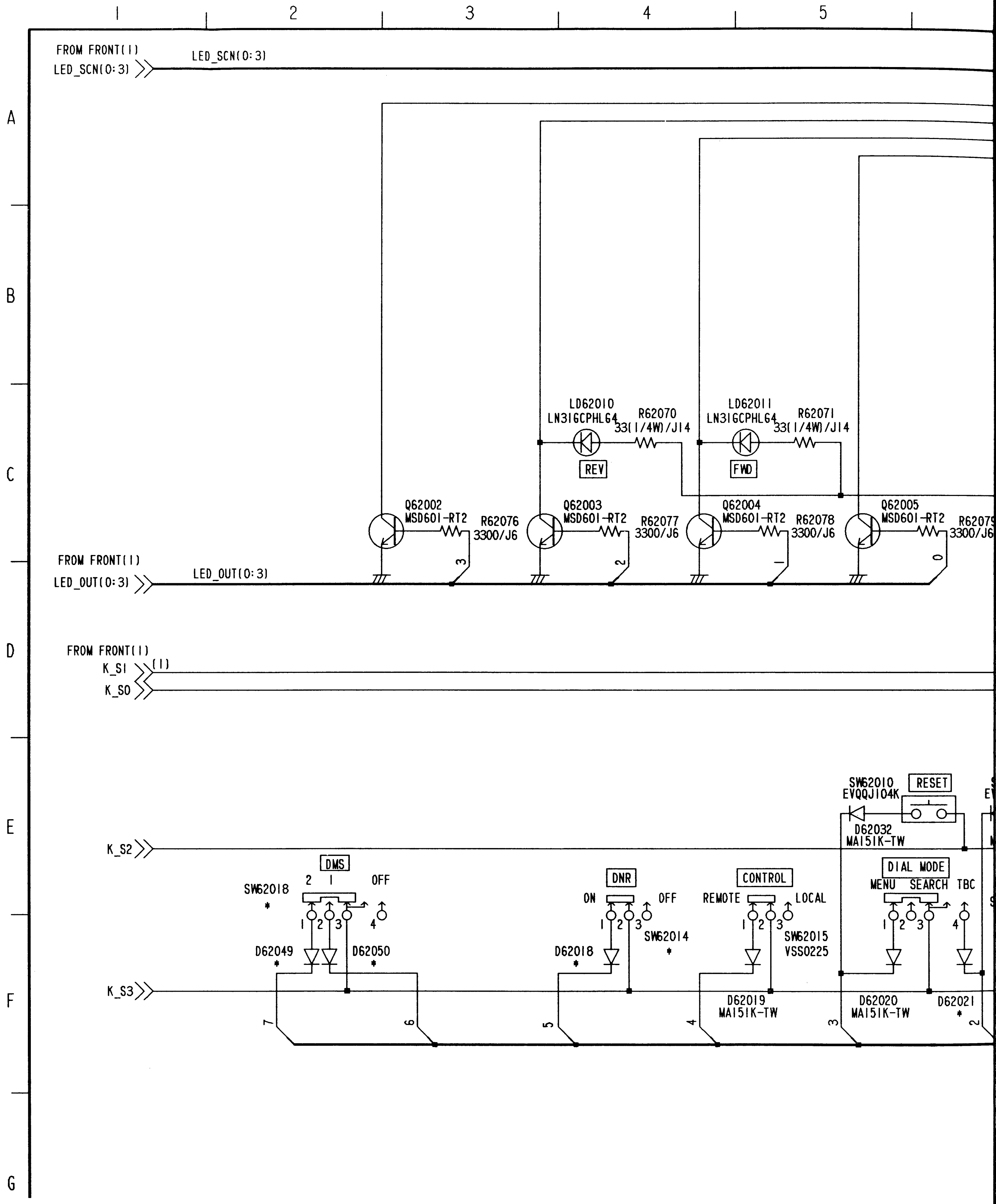
FRONT-1 DC VOLTAGE CHART

REF. NO.	IC62001									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	–	5.1	5.1	5.1	5.1	2.6	2.5	0	5.2	0
REC	–	5.1	5.1	5.1	5.1	2.6	2.5	0	5.1	0
REF. NO.	IC62001									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	0	0	0	0	0	0	–
REC	0	0	1.2	0	1.2	0	0	0	0	–
REF. NO.	IC62001									
MODE	21	22	23	24	25	26	27	28	29	30
STOP	−3.6	−6.6	−6.6	−3.8	−3.8	−22.7	−25.5	−14.5	−17.2	5.2
REC	−8.9	−8.7	−12.1	−13.8	−13.7	−16.1	−25.5	−14.5	−17.2	5.2
REF. NO.	IC62001									
MODE	31	32	33	34	35	36	37	38	39	40
STOP	−26.0	0	0	0	0	0	0	−23.0	−23.0	−23.0
REC	−26.0	0	0	0	0	0	0	−23.0	−23.0	−23.0
REF. NO.	IC62001									
MODE	41	42	43	44	45	46	47	48	49	50
STOP	−23.0	−22.9	−22.9	−22.9	−22.7	−22.7	−23.0	5.2	5.1	0
REC	−23.0	−23.1	−23.2	−23.3	−23.0	−23.1	−23.3	5.1	5.1	1.0
REF. NO.	IC62001									
MODE	51	52	53	54	55	56	57	58	59	60
STOP	0	5.2	0	0	0	0	0	0	0	2.5
REC	4.7	5.1	0	0	0	0	0	0	0	2.4
REF. NO.	IC62001									
MODE	61	62	63	64	65	66	67	68	69	70
STOP	0	0	0	0	0	5.1	5.1	5.1	5.1	0
REC	0	0	0	0	0	3.8	3.8	3.8	3.8	0
REF. NO.	IC62001									
MODE	71	72	73	74	75	76	77	78	79	80
STOP	5.1	5.1	5.1	0	2.5	0	0	0	5.2	0
REC	5.1	5.1	5.1	0	2.5	0	0	0	5.2	0
REF. NO.	IC62001									
MODE	81	82	83	84	85	86	87	88	89	90
STOP	5.2	5.1	0	0	5.2	5.2	0	0	5.2	0
REC	5.1	5.1	3.8	5.1	5.1	0	0	0	0	0
REF. NO.	IC62001									
MODE	91	92	93	94						
STOP	0	0	0	0						
REC	0	0	0	0						
REF. NO.	IC62002									
MODE	1	2	3	4	5	6	7	8		
STOP	0	2.5	4.5	0	4.6	2.5	5.1	5.1		
REC	0	2.5	4.5	0	4.6	2.5	5.1	5.1		
REF. NO.	IC62003									
MODE	1	2	3							
STOP	5.1	5.1	0							
REC	5.1	5.1	0							
REF. NO.	QR62001									
MODE	E	C	B							
STOP	0	0	4.6							
REC	0	0	4.9							

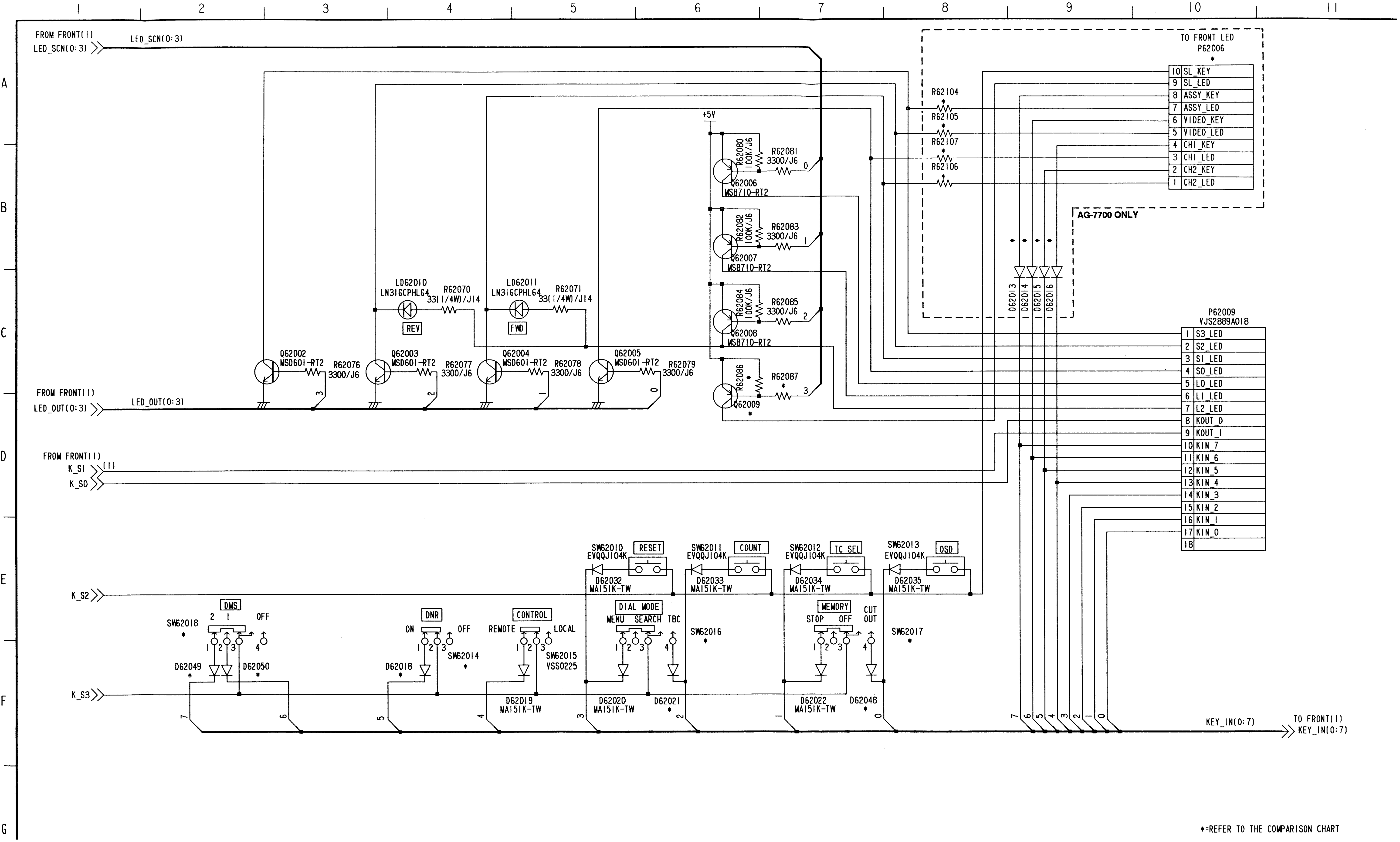
FRONT-2 DC VOLTAGE CHART

REF. NO.	Q62002			Q62003			Q62004			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	2.9	0.2	0	3.8	0	0	3.7	0	
REC	0	3.7	0	0	2.8	0.2	0	3.7	0	
REF. NO.	Q62005			Q62006			Q62007			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	3.5	0	5.1	2.6	4.9	5.1	2.6	4.9	
REC	0	2.5	0.2	5.1	1.8	4.9	5.1	2.6	4.9	
REF. NO.	Q62008			Q62009						
MODE	E	C	B	E	C	B				
STOP	5.2	2.6	4.9	5.1	1.8	4.9				
REC	5.1	2.6	4.9	5.1	1.8	4.9				

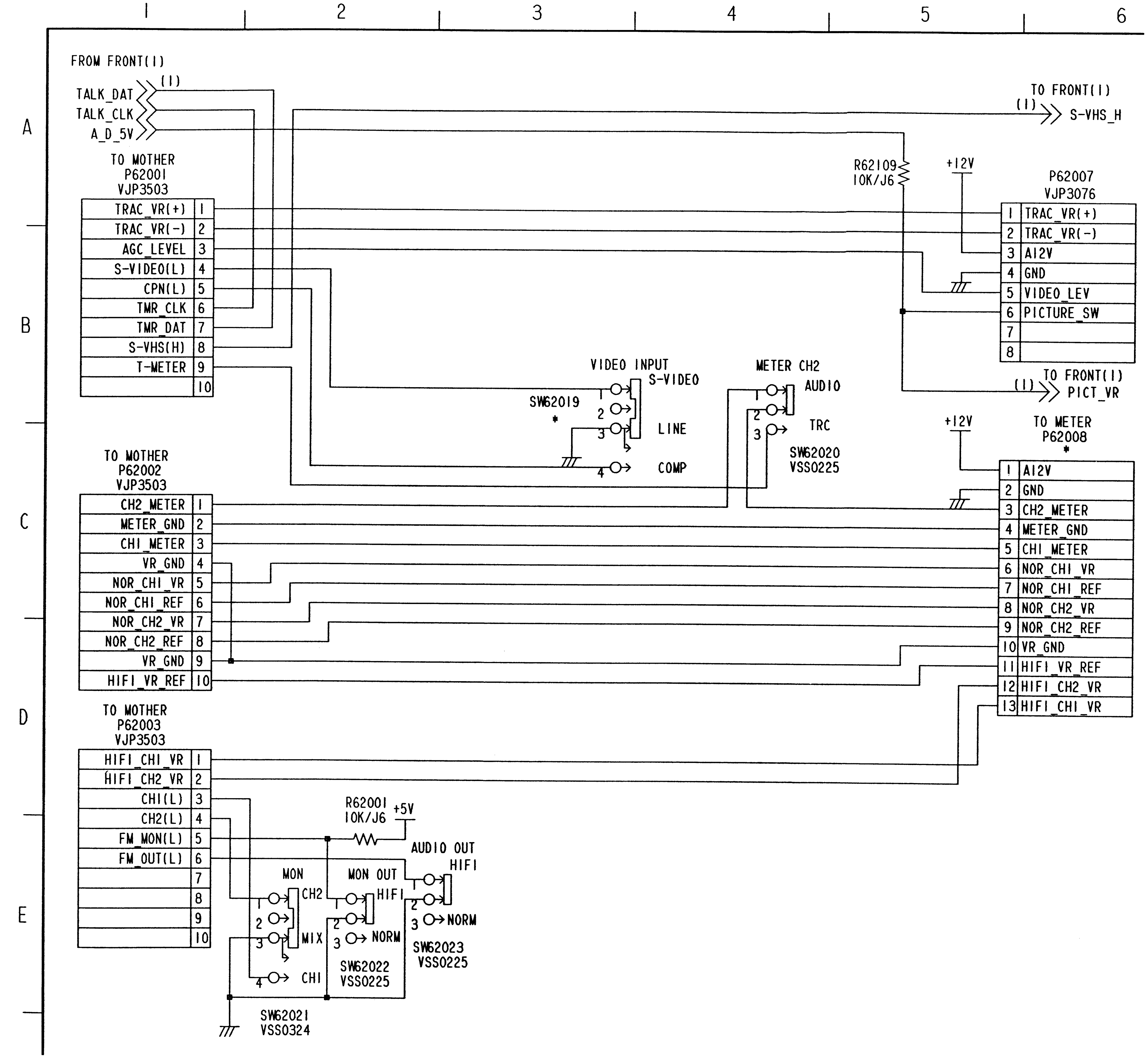
FRONT-2 SCHEMATIC DIAGRAM 2/4 (E16: Page CBA-12)


1
2
3
4
5
A
B
C
D
E
F
G
FROM FRONT(1)
LED_SCN(0:3)
LED_SCN(0:3)
LD62010
LN31GCPHL64
R62070
33(1/4W)/J14
REV
LD62011
LN31GCPHL64
R62071
33(1/4W)/J14
FWD
Q62002
MSD601-RT2
R62076
3300/J6
Q62003
MSD601-RT2
R62077
3300/J6
Q62004
MSD601-RT2
R62078
3300/J6
Q62005
MSD601-RT2
3300/J6
FROM FRONT(1)
LED_OUT(0:3)
LED_OUT(0:3)
FROM FRONT(1)
K_S1
(1)
K_S0
SW62010
EVQQJ104K
RESET
D62032
MA151K-TW
K_S2
DMS
SW62018
*
2
1
OFF
D62049
*
D62050
*
DNR
ON
OFF
D62018
*
SW62014
*
CONTROL
REMOTE
LOCAL
SW62015
VSS0225
D62019
MA151K-TW
DIAL MODE
MENU
SEARCH
TBC
D62020
MA151K-TW
D62021
*
K_S3

FRONT-2 SCHEMATIC DIAGRAM 2/4 (E16: Page CBA-12)


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
FROM FRONT(1)
LED_SCN(0:3)
LED_SCN(0:3)
TO FRONT LED
P62006
*
10 SL_KEY
9 SL_LED
8 ASSY_KEY
7 ASSY_LED
6 VIDEO_KEY
5 VIDEO_LED
4 CH1_KEY
3 CH1_LED
2 CH2_KEY
1 CH2_LED
R62104
R62105
R62107
R62106
AG-7700 ONLY
+5V
R62080 100K/J6
R62081 3300/J6
Q62006 MSB710-RT2
R62082 100K/J6
R62083 3300/J6
Q62007 MSB710-RT2
R62084 100K/J6
R62085 3300/J6
Q62008 MSB710-RT2
R62086
R62087
Q62009
D62013
D62014
D62015
D62016
LD62010 LN31GCPHLG4
R62070 33(1/4W)/J14
REV
LD62011 LN31GCPHLG4
R62071 33(1/4W)/J14
FWD
Q62002 MSD601-RT2
R62076 3300/J6
Q62003 MSD601-RT2
R62077 3300/J6
Q62004 MSD601-RT2
R62078 3300/J6
Q62005 MSD601-RT2
R62079 3300/J6
FROM FRONT(1)
LED_OUT(0:3)
LED_OUT(0:3)
P62009
VJS2889A018
1 S3_LED
2 S2_LED
3 S1_LED
4 S0_LED
5 L0_LED
6 L1_LED
7 L2_LED
8 KOUT_0
9 KOUT_1
10 KIN_7
11 KIN_6
12 KIN_5
13 KIN_4
14 KIN_3
15 KIN_2
16 KIN_1
17 KIN_0
18
FROM FRONT(1)
K_S1
(1)
K_S0
K_S2
K_S3
SW62010 EVQQJ104K
RESET
D62032 MA151K-TW
SW62011 EVQQJ104K
COUNT
D62033 MA151K-TW
SW62012 EVQQJ104K
TC SEL
D62034 MA151K-TW
SW62013 EVQQJ104K
OSD
D62035 MA151K-TW
DMS
2 1 OFF
SW62018
D62049
D62050
DNR
ON OFF
SW62014
D62018
CONTROL
REMOTE LOCAL
SW62015 VSS0225
D62019 MA151K-TW
DIAL MODE
MENU SEARCH TBC
SW62016
D62020 MA151K-TW
D62021
MEMORY
STOP OFF
CUT OUT
D62022 MA151K-TW
D62048
SW62017
KEY_IN(0:7)
TO FRONT(1)
KEY_IN(0:7)
*=REFER TO THE COMPARISON CHART

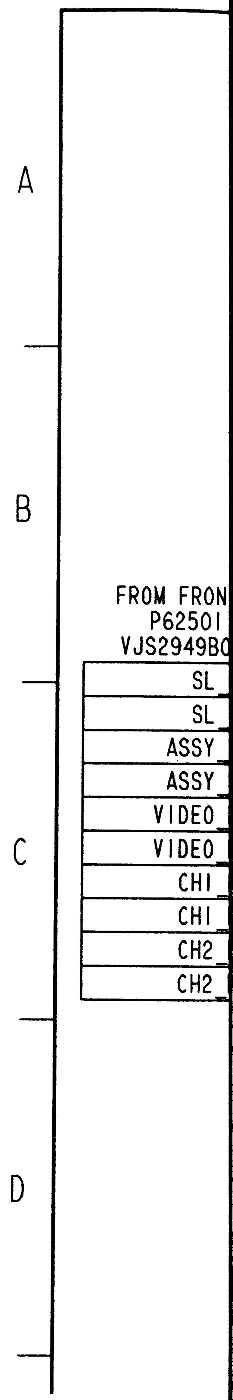
FRONT-3 SCHEMATIC DIAGRAM 3/4 (E16: Page CBA-12)


1
2
3
4
5
6
A
B
C
D
E
FROM FRONT(1)
(1)
TALK_DAT
TALK_CLK
A_D_5V
TO FRONT(1)
(1)
S-VHS_H
TO MOTHER
P62001
VJP3503
TRAC_VR(+) 1
TRAC_VR(-) 2
AGC_LEVEL 3
S-VIDEO(L) 4
CPN(L) 5
TMR_CLK 6
TMR_DAT 7
S-VHS(H) 8
T-METER 9
10
R62109
10K/J6
+12V
P62007
VJP3076
1 TRAC_VR(+)
2 TRAC_VR(-)
3 A12V
4 GND
5 VIDEO_LEV
6 PICTURE_SW
7
8
TO FRONT(1)
(1)
PICT_VR
VIDEO INPUT
S-VIDEO
SW62019
*
LINE
COMP
METER CH2
AUDIO
TRC
SW62020
VSS0225
+12V
TO METER
P62008
*
TO MOTHER
P62002
VJP3503
CH2_METER 1
METER_GND 2
CH1_METER 3
VR_GND 4
NOR_CH1_VR 5
NOR_CH1_REF 6
NOR_CH2_VR 7
NOR_CH2_REF 8
VR_GND 9
HIFI_VR_REF 10
1 A12V
2 GND
3 CH2_METER
4 METER_GND
5 CH1_METER
6 NOR_CH1_VR
7 NOR_CH1_REF
8 NOR_CH2_VR
9 NOR_CH2_REF
10 VR_GND
11 HIFI_VR_REF
12 HIFI_CH2_VR
13 HIFI_CH1_VR
TO MOTHER
P62003
VJP3503
HIFI_CH1_VR 1
HIFI_CH2_VR 2
CH1(L) 3
CH2(L) 4
FM_MON(L) 5
FM_OUT(L) 6
7
8
9
10
R62001
10K/J6
+5V
AUDIO OUT
HIFI
MON
CH2
MIX
CH1
MON OUT
HIFI
NORM
NORM
SW62022
VSS0225
SW62023
VSS0225
SW62021
VSS0324

FRONT COMPARISON CHART 4/4
(E16: Page CBA-12)

REF	AG-7700	AG-7600
C62006	*PAT/EVV	*PAT/EVV
D62001	*PAT	*PAT
D62003	*PAT	*PAT
D62004	*PAT	*PAT
D62013	MA151K-TW	*PAT
D62014	MA151K-TW	*PAT
D62015	MA151K-TW	*PAT
D62016	MA151K-TW	*PAT
D62018	*PAT	*PAT
D62021	*PAT	*PAT
D62048	MA151K-TW	*PAT
D62049	*PAT	*PAT
D62050	*PAT	*PAT
J62001	*PAT/J6	*PAT/J6
J62002	0/J6	0/J6
J62003	*PAT/J6	*PAT/J6
J62004	0/J6	0/J6
J62006	*PAT/J6	0/J6
P62006	VJS2949B010	*PAT
P62008	VJP1394T	VJP3530
Q62001	*PAT	*PAT
Q62009	MSB710-RT2	*PAT
R62002	*PAT/J14	*PAT/J14
R62060	*PAT/J14	*PAT/J14
R62086	100K/J6	*PAT/J6
R62087	1000/J6	*PAT/J6
R62104	47/J14	*PAT/J14
R62105	33/J14	*PAT/J14
R62106	33/J14	*PAT/J14
R62107	33/J14	*PAT/J14
SW62014	*PAT	*PAT
SW62016	VSS0225	VSS0225
SW62017	VSS0324	VSS0225
SW62018	*PAT	*PAT
SW62019	VSS0225	*PAT
TP62001	*PAT	*PAT
TP62002	*PAT	*PAT
TP62003	*PAT	*PAT
TP62005	*PAT	*PAT
TP62006	*PAT	*PAT
TP62007	*PAT	*PAT
TP62008	*PAT	*PAT
TP62009	*PAT	*PAT
TP62010	*PAT	*PAT
TP62011	*PAT	*PAT
TP62012	*PAT	*PAT

FRONT LE
(E17: AG-7


A
B
C
D
FROM FRON
P62501
VJS2949B0
SL
SL
ASSY
ASSY
VIDEO
VIDEO
CH1
CH1
CH2
CH2

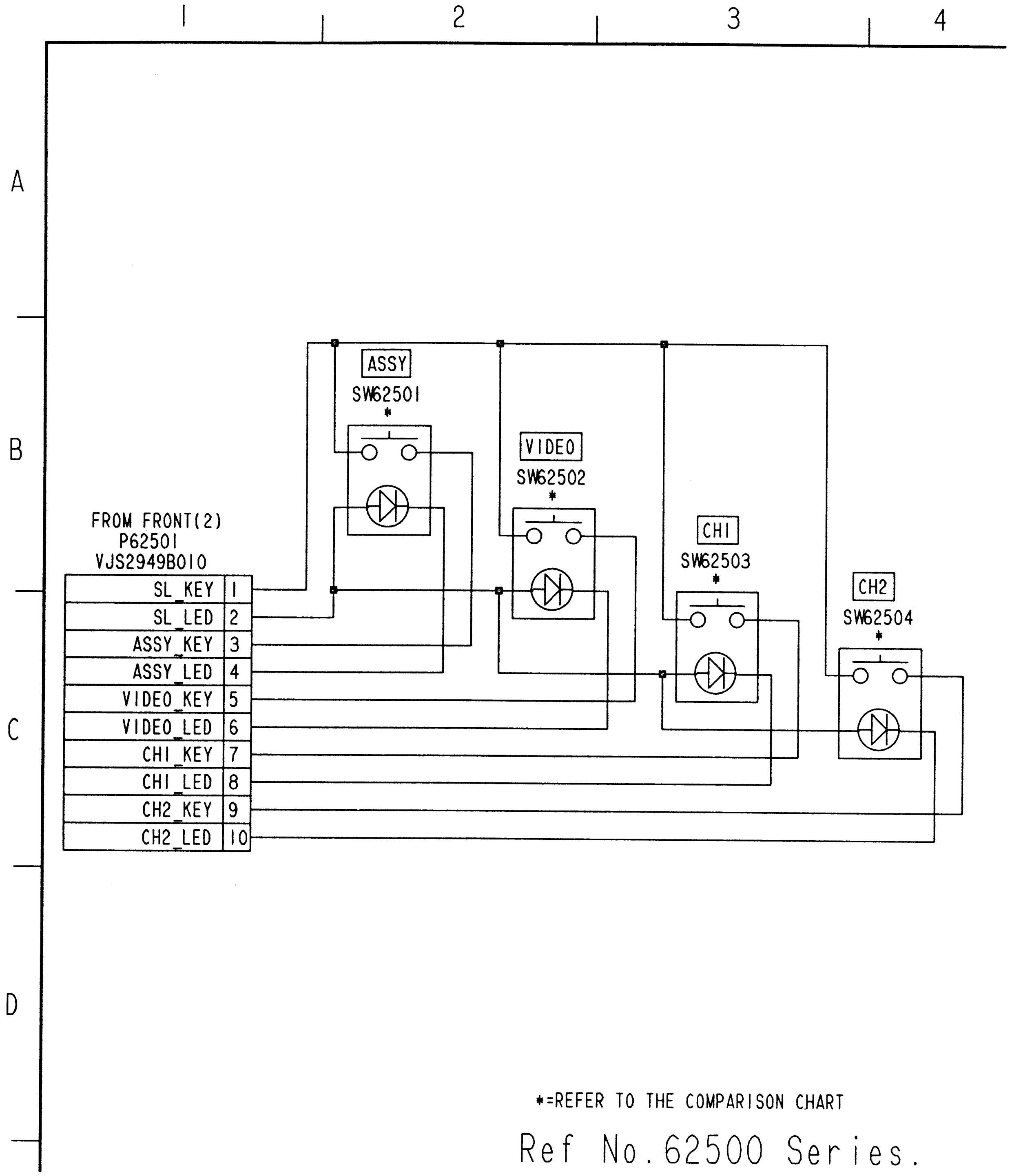
FRONT LE
(E17: AG-77

$R
SW6
SW6
SW6
SW6

OMPARISON CHART 4/4
e CBA-12)

	AG-7700	AG-7600
	*PAT/EVV	*PAT/EVV
	*PAT	*PAT
	*PAT	*PAT
	*PAT	*PAT
	MA151K-TW	*PAT
	MA151K-TW	*PAT
	MA151K-TW	*PAT
	MA151K-TW	*PAT
	*PAT	*PAT
	*PAT	*PAT
	MA151K-TW	*PAT
	*PAT	*PAT
	*PAT	*PAT
	*PAT/J6	*PAT/J6
	0/J6	0/J6
	*PAT/J6	*PAT/J6
	0/J6	0/J6
	*PAT/J6	0/J6
	VJS2949B010	*PAT
	VJP1394T	VJP3530
	*PAT	*PAT
	MSB710-RT2	*PAT
	*PAT/J14	*PAT/J14
	*PAT/J14	*PAT/J14
	100K/J6	*PAT/J6
	1000/J6	*PAT/J6
	47/J14	*PAT/J14
	33/J14	*PAT/J14
	33/J14	*PAT/J14
	33/J14	*PAT/J14
	*PAT	*PAT
	VSS0225	VSS0225
	VSS0324	VSS0225
	*PAT	*PAT
	VSS0225	*PAT
	*PAT	*PAT
	*PAT	*PAT
	*PAT	*PAT
	*PAT	*PAT
	*PAT	*PAT
	*PAT	*PAT
	*PAT	*PAT
	*PAT	*PAT
	*PAT	*PAT
	*PAT	*PAT
	*PAT	*PAT

FRONT LED SCHEMATIC DIAGRAM 1/2
(E17: AG-7700 0NLY/Page CBA-12)


1
2
3
4
A
B
C
D
FROM FRONT(2)
P62501
VJS2949B010
SL_KEY 1
SL_LED 2
ASSY_KEY 3
ASSY_LED 4
VIDEO_KEY 5
VIDEO_LED 6
CH1_KEY 7
CH1_LED 8
CH2_KEY 9
CH2_LED 10
ASSY
SW62501
*
VIDEO
SW62502
*
CH1
SW62503
*
CH2
SW62504
*

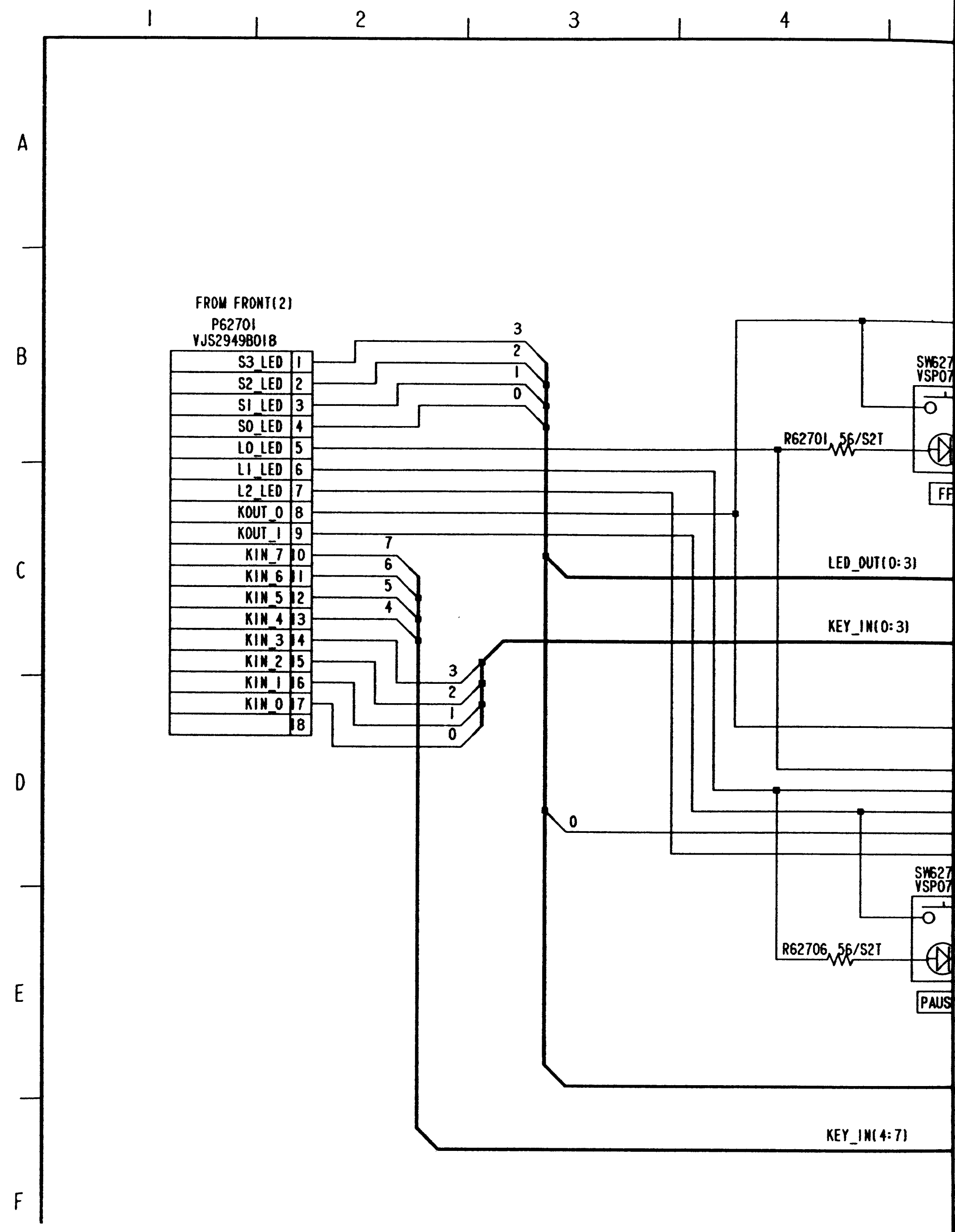
*=REFER TO THE COMPARISON CHART

Ref No.62500 Series.

FRONT LED COMPARISON CHART 2/2
(E17: AG-7700 0NLY/Page CBA-12)

REF	AG-7700
SW62501	VSP0151-2
SW62502	VSP0780
SW62503	VSP0780
SW62504	VSP0780

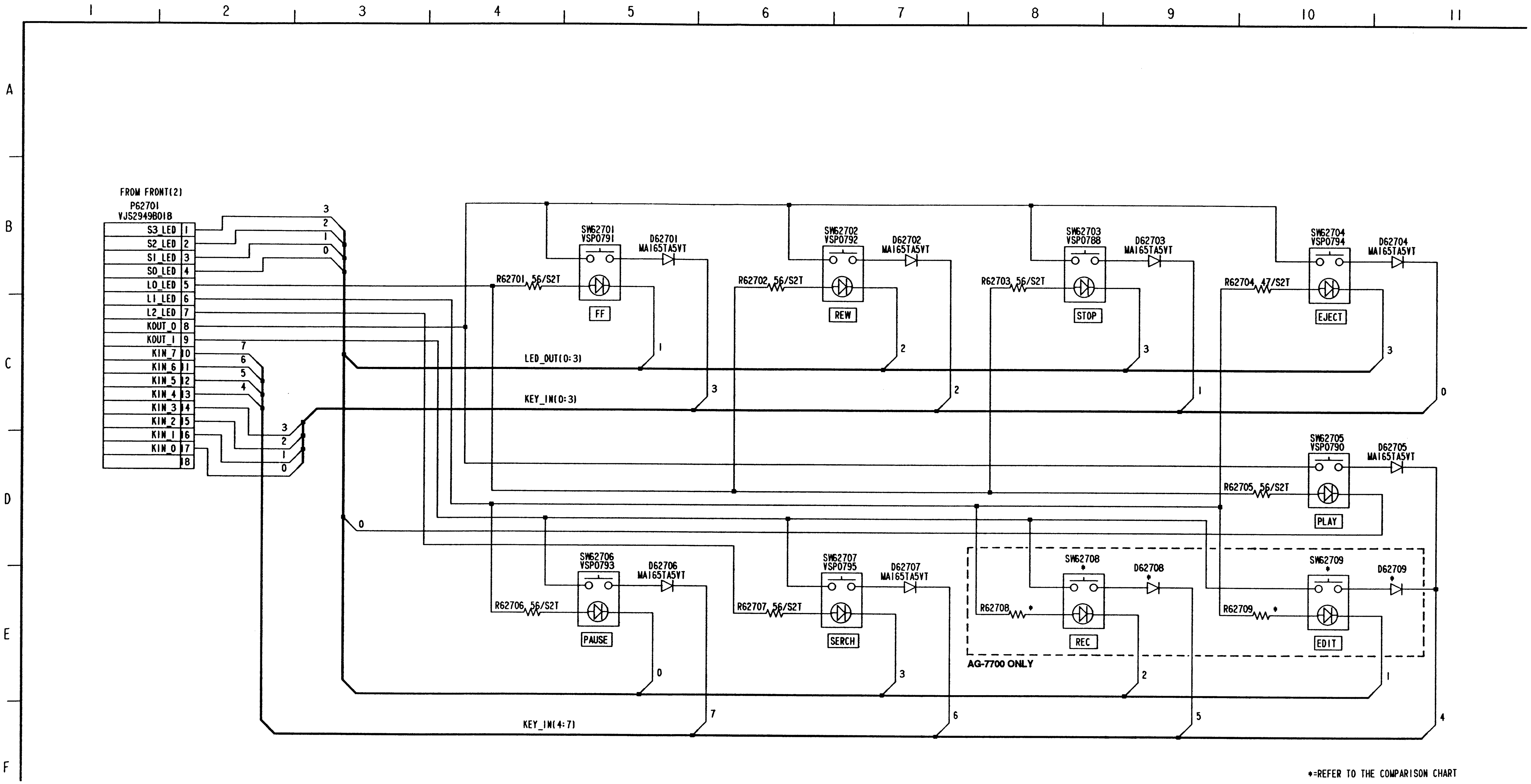
KEYBOARD SCHEMATIC DIAGRAM 1/2 (E18: Page


1
2
3
4
A
B
C
D
E
F
FROM FRONT(2)
P62701
VJS2949B018
S3_LED 1
S2_LED 2
S1_LED 3
S0_LED 4
L0_LED 5
L1_LED 6
L2_LED 7
KOUT_0 8
KOUT_1 9
KIN_7 10
KIN_6 11
KIN_5 12
KIN_4 13
KIN_3 14
KIN_2 15
KIN_1 16
KIN_0 17
18
3
2
1
0
7
6
5
4
3
2
1
0
0
R62701 56/S2T
R62706 56/S2T
LED_OUT(0:3)
KEY_IN(0:3)
KEY_IN(4:7)
SW627
VSP07
FF
SW627
VSP07
PAUS

KEYBOARD COMPARISON CHART 2/2 (E18: Page C

REF	AG-7700	AG-7600
D62708	MA165-TW	*PAT
D62709	MA165-TW	*PAT
R62708	56/S2T	*PAT/S2T
R62709	56/S2T	*PAT/S2T
SW62708	VSP0789	*PAT
SW62709	VSP0795	*PAT

KEYBOARD SCHEMATIC DIAGRAM 1/2 (E18: Page CBA-13)


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
FROM FRONT(2)
P62701
VJS2949B018
S3_LED 1
S2_LED 2
S1_LED 3
S0_LED 4
L0_LED 5
L1_LED 6
L2_LED 7
KOUT_0 8
KOUT_1 9
KIN_7 10
KIN_6 11
KIN_5 12
KIN_4 13
KIN_3 14
KIN_2 15
KIN_1 16
KIN_0 17
18
SW62701
VSP0791
D62701
MA165TA5VT
R62701 56/S2T
FF
SW62702
VSP0792
D62702
MA165TA5VT
R62702 56/S2T
REW
SW62703
VSP0788
D62703
MA165TA5VT
R62703 56/S2T
STOP
SW62704
VSP0794
D62704
MA165TA5VT
R62704 47/S2T
EJECT
LED_OUT(0:3)
KEY_IN(0:3)
SW62705
VSP0790
D62705
MA165TA5VT
R62705 56/S2T
PLAY
SW62706
VSP0793
D62706
MA165TA5VT
R62706 56/S2T
PAUSE
SW62707
VSP0795
D62707
MA165TA5VT
R62707 56/S2T
SERCH
SW62708
*
D62708
*
R62708 *
REC
SW62709
*
D62709
*
R62709 *
EDIT
AG-7700 ONLY
KEY_IN(4:7)

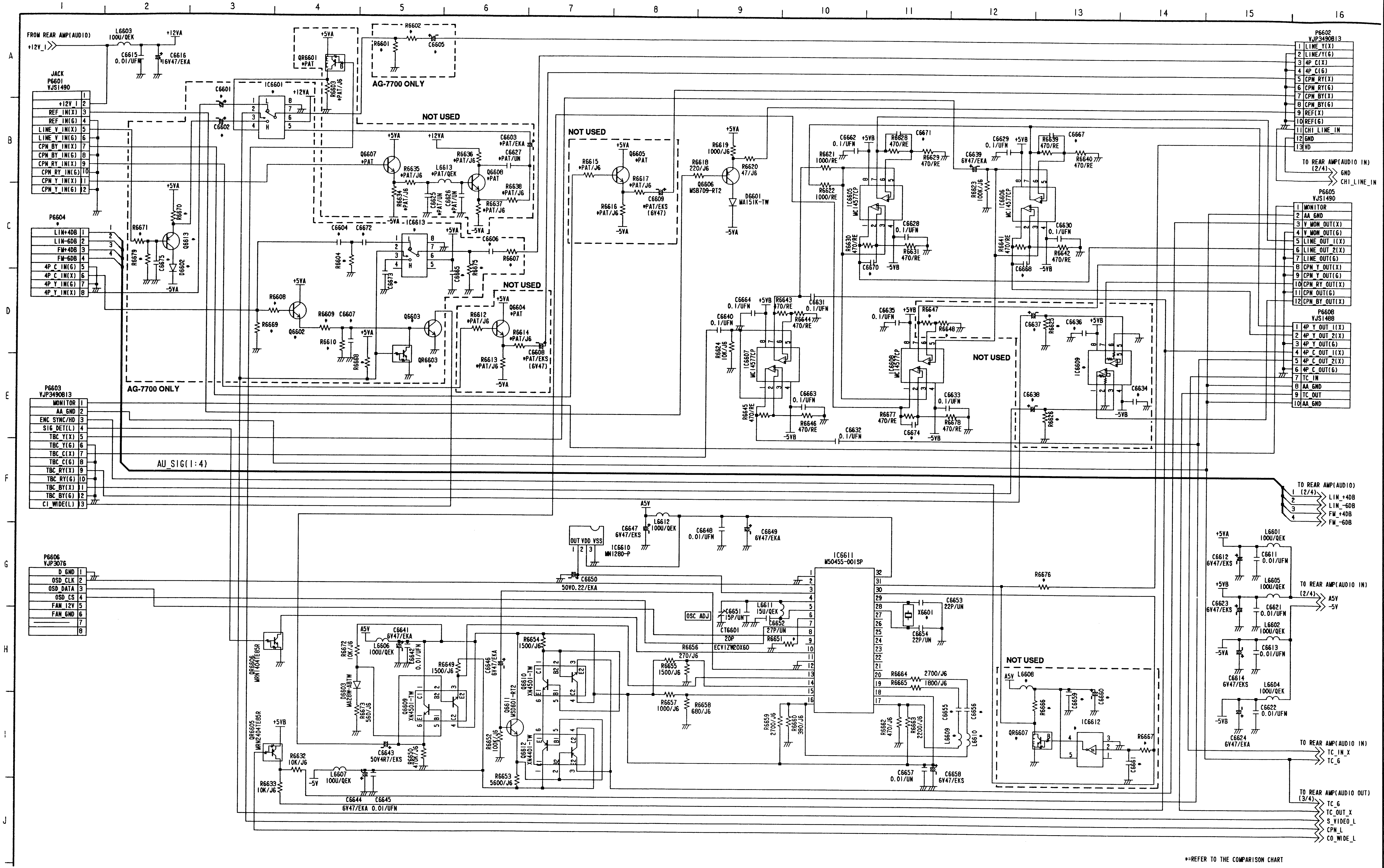
*=REFER TO THE COMPARISON CHART

Ref No.62700 Series.

KEYBOARD COMPARISON CHART 2/2 (E18: Page CBA-13)

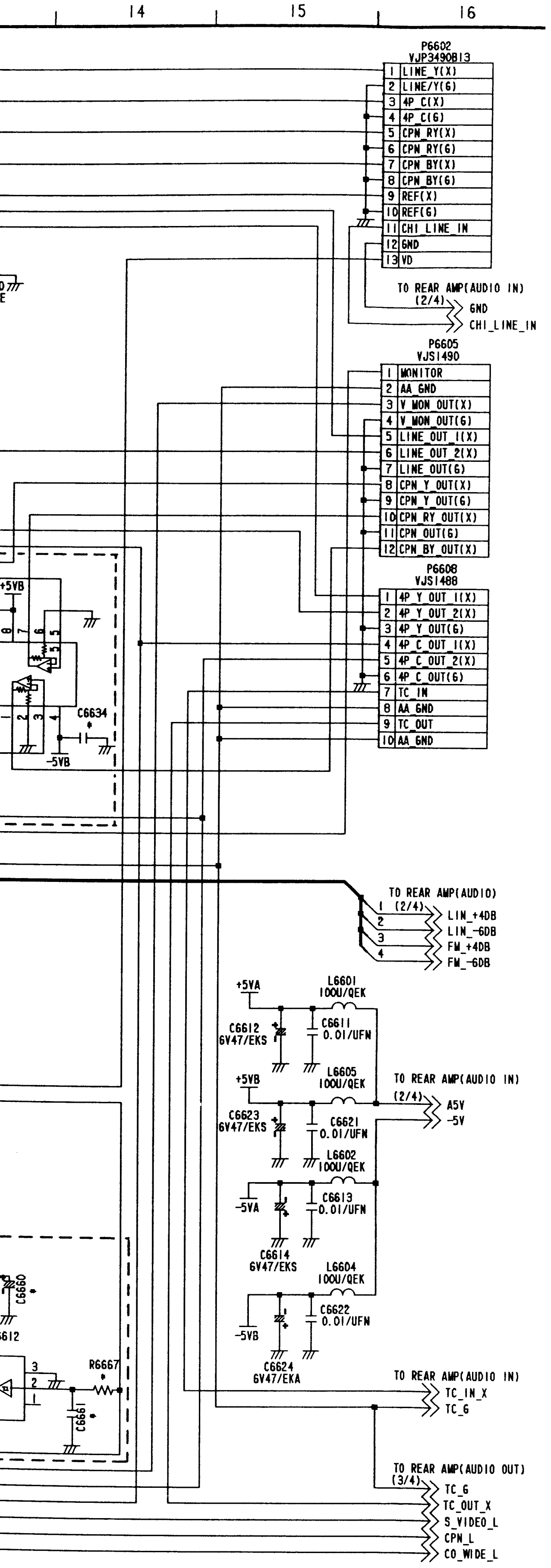
REF	AG-7700	AG-7600
D62708	MA165-TW	*PAT
D62709	MA165-TW	*PAT
R62708	56/S2T	*PAT/S2T
R62709	56/S2T	*PAT/S2T
SW62708	VSP0789	*PAT
SW62709	VSP0795	*PAT

REAR AMP VIDEO SCHEMATIC DIAGRAM 1/4 (E28: Page CBA-14)


FROM REAR AMP(AUDIO)
+12V_I
L6603 100U/QEK
+12VA
C6615 0.01/UFN
C6616 16V47/EKA
JACK P6601 VJS1490
+12V_I
REF_IN(X)
REF_IN(G)
LINE_V_IN(X)
LINE_V_IN(G)
CPN_BY_IN(X)
CPN_BY_IN(G)
CPN_RY_IN(X)
CPN_RY_IN(G)
CPN_Y_IN(X)
CPN_Y_IN(G)
QR6601 *PAT
R6603 *PAT/J6
R6602
R6601
C6605
AG-7700 ONLY
IC6601
C6601
C6602
NOT USED
Q6607 *PAT
R6635 *PAT/J6
L6613 *PAT/QEK
Q6606 *PAT
R6636 *PAT/J6
C6603 *PAT/EKA
C6627 *PAT/UN
R6638 *PAT/J6
R6637 *PAT/J6
R6634 *PAT/J6
C6625 *PAT/UN
C6626 *PAT/UN
IC6613
P6604
LIN+4DB
LIN-6DB
FM+4DB
FM-6DB
4P_C_IN(G)
4P_C_IN(X)
4P_Y_IN(G)
4P_Y_IN(X)
R6671
R6670
Q6613
R6679
C6675
D6602
C6604
C6672
R6604
C6673
C6606
R6607
C6665
R6675
R6608
Q6602
R6669
R6609
C6607
R6610
R6668
Q6603
QR6603
Q6604 *PAT
R6612 *PAT/J6
R6614 *PAT/J6
R6613 *PAT/J6
C6608 *PAT/EKS (6V47)
AG-7700 ONLY
P6603 VJP3490B13
MONITOR
AA_GND
ENC_SYNC/HD
SIG_DET(L)
TBC_Y(X)
TBC_Y(G)
TBC_C(X)
TBC_C(G)
TBC_RY(X)
TBC_RY(G)
TBC_BY(X)
TBC_BY(G)
CI_WIDE(L)
AU_SIG(1:4)
Q6605 *PAT
R6615 *PAT/J6
R6617 *PAT/J6
R6616 *PAT/J6
C6609 *PAT/EKS (6V47)
R6619 1000/J6
R6618 220/J6
R6620 47/J6
Q6606 MSB709-RT2
D6601 MA151K-TW
C6662 0.1/UFN
R6621 1000/RE
R6622 1000/RE
R6628 470/RE
C6671
R6629 470/RE
IC6605 MC14577CP
C6628 0.1/UFN
R6630 470/RE
R6631 470/RE
C6670
C6629 0.1/UFN
C6639 6V47/EKA
R6639 470/RE
C6667
R6640 470/RE
R6623 100K/J6
IC6606 MC14577CP
C6630 0.1/UFN
R6641 470/RE
R6642 470/RE
C6668
P6602 VJP3490B13
LINE_Y(X)
LINE/Y(G)
4P_C(X)
4P_C(G)
CPN_RY(X)
CPN_RY(G)
CPN_BY(X)
CPN_BY(G)
REF(X)
REF(G)
CH1_LINE_IN
GND
VD
TO REAR AMP(AUDIO IN) (2/4)
GND
CH1_LINE_IN
P6605 VJS1490
MONITOR
AA_GND
V_MON_OUT(X)
V_MON_OUT(G)
LINE_OUT_1(X)
LINE_OUT_2(X)
LINE_OUT(G)
CPN_Y_OUT(X)
CPN_Y_OUT(G)
CPN_RY_OUT(X)
CPN_OUT(G)
CPN_BY_OUT(X)
C6664 0.1/UFN
R6643 470/RE
C6631 0.1/UFN
C6640 0.1/UFN
R6644 470/RE
R6624 10K/J6
IC6607 MC14577CP
R6645 470/RE
C6663 0.1/UFN
R6646 470/RE
C6632 0.1/UFN
C6635 0.1/UFN
R6647
R6648
IC6608 MC14577CP
R6677 470/RE
C6674
C6633 0.1/UFN
R6678 470/RE
NOT USED
C6637
R6625
C6636
IC6609
C6634
C6638
R6626
P6608 VJS1488
4P_Y_OUT_1(X)
4P_Y_OUT_2(X)
4P_Y_OUT(G)
4P_C_OUT_1(X)
4P_C_OUT_2(X)
4P_C_OUT(G)
TC_IN
AA_GND
TC_OUT
AA_GND
TO REAR AMP(AUDIO) (2/4)
LIN_+4DB
LIN_-6DB
FM_+4DB
FM_-6DB
P6606 VJP3076
D_GND
OSD_CLK
OSD_DATA
OSD_CS
FAN_12V
FAN_GND
A5V
C6647 6V47/EKS
L6612 100U/QEK
C6648 0.01/UFN
C6649 6V47/EKA
IC6610 MN1280-P
OUT VDD VSS
C6650 50V0.22/EKA
IC6611 M50455-001SP
OSC ADJ
C6651 15P/UN
L6611 15U/QEK
CT6601 20P
C6652 27P/UN
R6651
R6656 ECV1ZW20X60
X6601
C6653 22P/UN
C6654 22P/UN
R6655 1500/J6
R6657 1000/J6
R6658 680/J6
R6664 2700/J6
R6665 1800/J6
R6659 2700/J6
R6660 390/J6
R6662 470/J6
R6663 2200/J6
C6655
C6656
L6609
L6610
C6657 0.01/UN
C6658 6V47/EKS
QR6606 MRN1404TE85R
QR6605 MRN2404TE85R
R6672 10K/J6
D6603 MA28W-A8TW
R6673 560/J6
L6606 100U/QEK
C6641 6V47/EKA
C6642 0.01/UFN
Q6609 XN4501-TW
R6649 1500/J6
C6643 50V4R7/EKS
R6650 470K/J6
R6632 10K/J6
R6633 10K/J6
L6607 100U/QEK
C6644 6V47/EKA
C6645 0.01/UFN
R6654 1500/J6
C6646 6V47/EKA
Q6611 MSD601-R12
R6652 100K/J6
Q6610 XN4501-TW
Q6612 XN4401-TW
R6653 5600/J6
R6676
NOT USED
L6608
R6666
C6659
C6660
QR6607
IC6612
R6667
C6661
+5VA
L6601 100U/QEK
C6612 6V47/EKS
C6611 0.01/UFN
L6605 100U/QEK
C6623 6V47/EKS
C6621 0.01/UFN
L6602 100U/QEK
C6613 0.01/UFN
C6614 6V47/EKS
L6604 100U/QEK
C6622 0.01/UFN
C6624 6V47/EKA
TO REAR AMP(AUDIO IN) (2/4)
A5V
-5V
TO REAR AMP(AUDIO IN)
TC_IN_X
TC_G
TO REAR AMP(AUDIO OUT) (3/4)
TC_G
TC_OUT_X
S_VIDEO_L
CPN_L
CO_WIDE_L

*=REFER TO THE COMPARISON CHART

Ref No.6600 Series.


14
15
16
P6602
VJP3490B13
1 LINE_Y(X)
2 LINE/Y(G)
3 4P_C(X)
4 4P_C(G)
5 CPN_RY(X)
6 CPN_RY(G)
7 CPN_BY(X)
8 CPN_BY(G)
9 REF(X)
10 REF(G)
11 CH1_LINE_IN
12 GND
13 VD
TO REAR AMP(AUDIO IN) (2/4)
GND
CH1_LINE_IN
P6605
VJS1490
1 MONITOR
2 AA_GND
3 V_MON_OUT(X)
4 V_MON_OUT(G)
5 LINE_OUT_1(X)
6 LINE_OUT_2(X)
7 LINE_OUT(G)
8 CPN_Y_OUT(X)
9 CPN_Y_OUT(G)
10 CPN_RY_OUT(X)
11 CPN_OUT(G)
12 CPN_BY_OUT(X)
P6608
VJS1488
1 4P_Y_OUT_1(X)
2 4P_Y_OUT_2(X)
3 4P_Y_OUT(G)
4 4P_C_OUT_1(X)
5 4P_C_OUT_2(X)
6 4P_C_OUT(G)
7 TC_IN
8 AA_GND
9 TC_OUT
10 AA_GND
+5VB
C6634
-5VB
TO REAR AMP(AUDIO) (2/4)
LIN_+4DB
LIN_-6DB
FM_+4DB
FM_-6DB
+5VA
L6601 100U/QEK
C6612 6V47/EKS
C6611 0.01/UFN
+5VB
L6605 100U/QEK
C6623 6V47/EKS
C6621 0.01/UFN
TO REAR AMP(AUDIO IN) (2/4)
A5V
-5V
L6602 100U/QEK
-5VA
C6613 0.01/UFN
C6614 6V47/EKS
L6604 100U/QEK
C6622 0.01/UFN
-5VB
C6624 6V47/EKA
C6660
R6667
C6661
TO REAR AMP(AUDIO IN)
TC_IN_X
TC_G
TO REAR AMP(AUDIO OUT) (3/4)
TC_G
TC_OUT_X
S_VIDEO_L
CPN_L
CO_WIDE_L

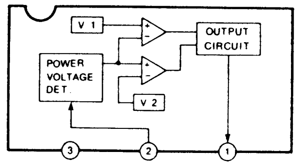
*=REFER TO THE COMPARISON CHART

Ref No.6600 Series.

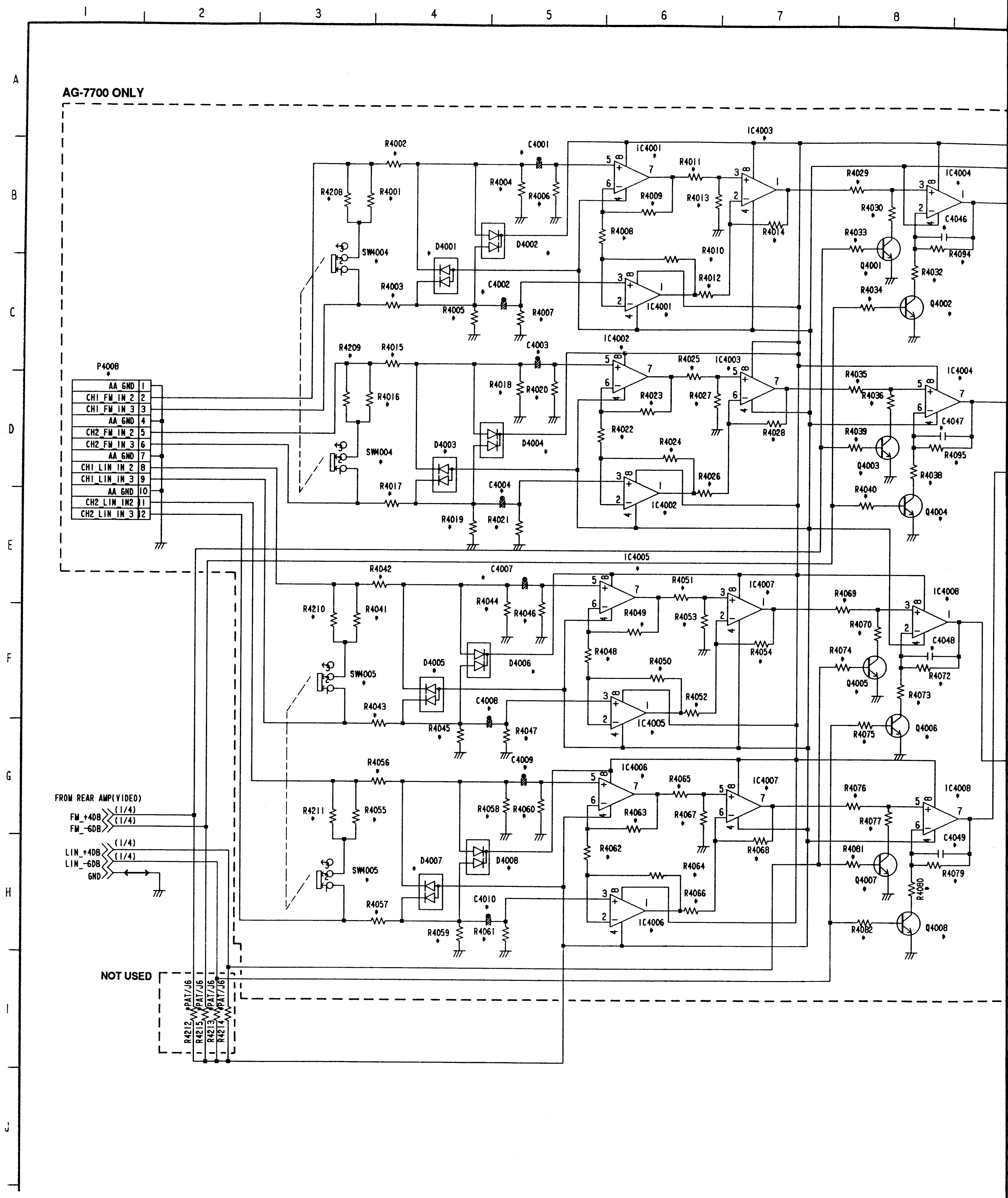
REAR AMP VIDEO DC VOLTAGE CHART

REF. NO.	IC6601									
MODE	1	2	3	4	5	6	7	8		
STOP	7.2	3.6	7.1	0	0	11.5	6.4	0		
REC	7.2	3.6	7.1	0	0	11.5	6.4	0		
REF. NO.	IC6605									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−4.7	0	0	0	4.7		
REC	0	0	0	−4.7	0	0	0	4.7		
REF. NO.	IC6606									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−4.7	0	0	0	4.7		
REC	0	0	0	−4.7	0	0	0	4.7		
REF. NO.	IC6607									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−4.7	0	0	0	4.7		
REC	0	0	0	−4.7	0	0	0	4.7		
REF. NO.	IC6610									
MODE	1	2	3							
STOP	4.9	4.9	0							
REC	4.9	4.9	0							
REF. NO.	IC6611									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	5.0	4.9	2.2	2.1	0	4.4	0.1	0.5	4.8
REC	0	5.0	4.9	2.2	2.1	0	4.4	0.1	0.5	4.8
REF. NO.	IC6611									
MODE	11	12	13	14	15	16	17	18	19	20
STOP	0	1.1	1.1	0.7	2.0	0.6	0.8	4.8	0.3	0.2
REC	0	1.1	1.1	0.7	2.0	0.6	0.9	4.8	0	0
REF. NO.	IC6611									
MODE	21	22	23	24	25	26	27	28	29	30
STOP	0	0.1	0	0	0	0	4.7	2.3	2.3	3.4
REC	0	0.1	0	0	0	0	4.7	2.3	2.3	3.4
REF. NO.	IC6611									
MODE	31	32								
STOP	4.9	4.9								
REC	4.9	4.9								
REF. NO.	IC6613									
MODE	1	2	3	4	5	6	7	8		
STOP	3.0	3.2	2.9	0	0	4.9	2.2	0		
REC	3.0	3.2	2.9	0	0	0	2.2	0		
REF. NO.	Q6601			Q6602			Q6603			
MODE	E	C	B	E	C	B	E	C	B	
STOP	−0.7	4.9	0	0	4.9	0	0	5.1	0	
REC	−0.7	4.9	0	0	4.9	0	0	5.1	0	
REF. NO.	Q6606			Q6609						
MODE	E	C	B	1	2	3	4	5	6	
STOP	0.7	−4.3	0	4.8	1.7	1.1	4.8	1.3	1.7	
REC	0.7	−4.3	0	4.8	1.7	1.1	4.8	1.3	1.7	
REF. NO.	Q6610						Q6611			
MODE	1	2	3	4	5	6	E	C	B	
STOP	0.5	0.5	−0.2	4.8	0.5	−0.2	−0.8	4.8	−0.2	
REC	0.4	0.4	−0.2	4.8	0.4	−0.2	−0.8	4.8	−0.2	
REF. NO.	Q6612						Q6613			
MODE	1	2	3	4	5	6	E	C	B	
STOP	−4.9	−0.8	−0.2	−4.9	−0.8	−0.2	0.8	−4.2	0.2	
REC	−4.9	−0.8	−0.2	−4.9	−0.8	−0.2	0.8	−4.2	0.2	
REF. NO.	QR6603			QR6605			QR6606			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	3.2	4.7	0	4.8	0	4.8	0.2	
REC	0	0	3.2	4.7	0	4.8	0	4.8	0.2	

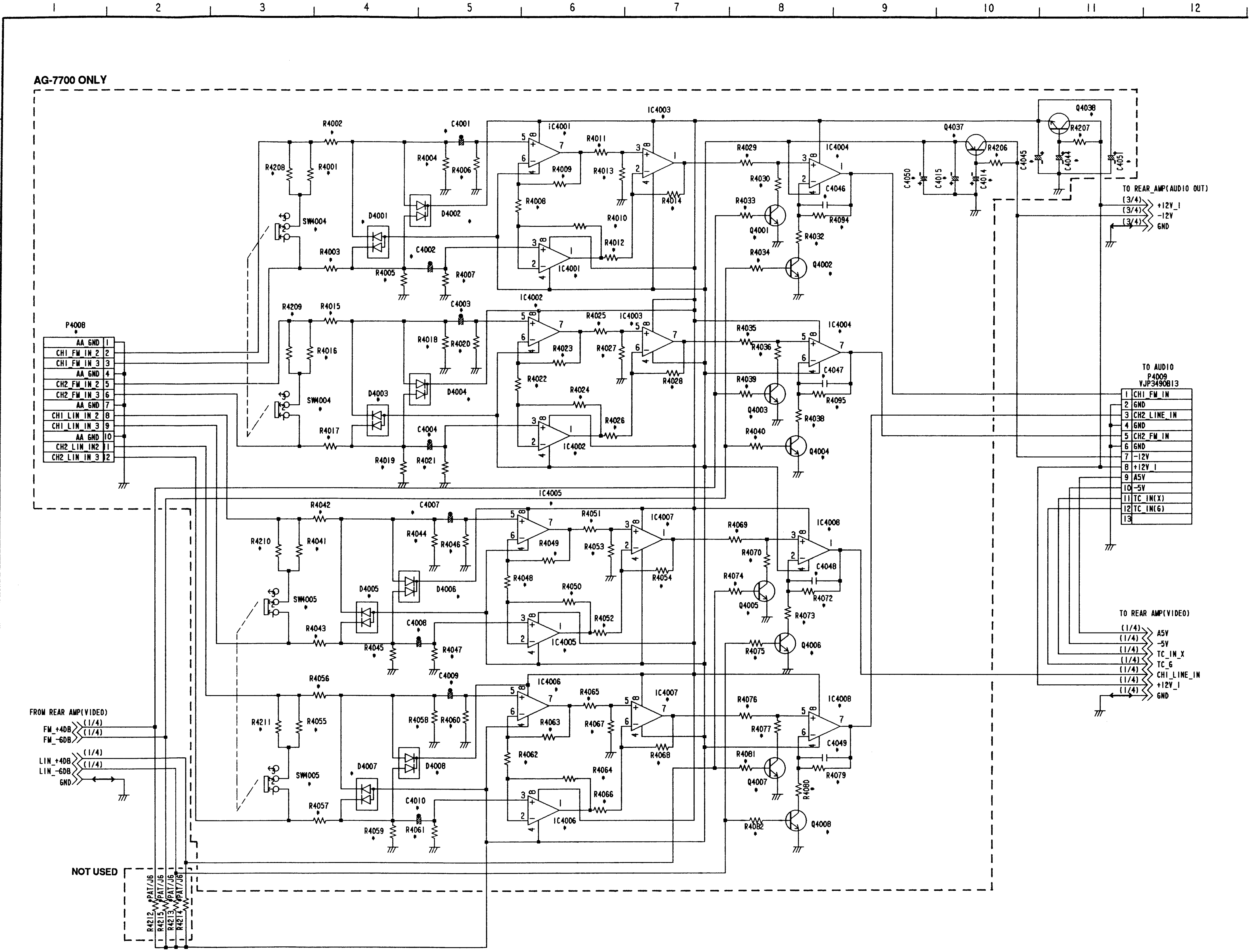
IC6610
MN1280-P


V1
POWER VOLTAGE DET
V2
OUTPUT CIRCUIT
③
②
①

REAR AMP AUDIO IN SCHEMATIC DIAGRAM 2/4 (E28: Page CBA-14)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
AG-7700 ONLY
P4008
1 AA GND
2 CH1 FM IN 2
3 CH1 FM IN 3
4 AA GND
5 CH2 FM IN 2
6 CH2 FM IN 3
7 AA GND
8 CH1 LIN IN 2
9 CH1 LIN IN 3
10 AA GND
11 CH2 LIN IN2
12 CH2 LIN IN 3
IC4001
IC4002
IC4003
IC4004
IC4005
IC4006
IC4007
IC4008
SW4004
SW4005
D4001
D4002
D4003
D4004
D4005
D4006
D4007
D4008
C4001
C4002
C4003
C4004
C4007
C4008
C4009
C4010
C4046
C4047
C4048
C4049
Q4001
Q4002
Q4003
Q4004
Q4005
Q4006
Q4007
Q4008
R4001
R4002
R4003
R4004
R4005
R4006
R4007
R4008
R4009
R4010
R4011
R4012
R4013
R4014
R4015
R4016
R4017
R4018
R4019
R4020
R4021
R4022
R4023
R4024
R4025
R4026
R4027
R4028
R4029
R4030
R4032
R4033
R4034
R4035
R4036
R4038
R4039
R4040
R4041
R4042
R4043
R4044
R4045
R4046
R4047
R4048
R4049
R4050
R4051
R4052
R4053
R4054
R4055
R4056
R4057
R4058
R4059
R4060
R4061
R4062
R4063
R4064
R4065
R4066
R4067
R4068
R4069
R4070
R4072
R4073
R4074
R4075
R4076
R4077
R4079
R4080
R4081
R4082
R4094
R4095
R4208
R4209
R4210
R4211
FROM REAR AMP(VIDEO)
FM_+4DB (1/4)
FM_-6DB (1/4)
LIN_+4DB (1/4)
LIN_-6DB (1/4)
GND
NOT USED
R4212 PAT/J6
R4215 PAT/J6
R4213 PAT/J6
R4214 PAT/J6

EAR AMP AUDIO IN SCHEMATIC DIAGRAM 2/4 (E28: Page CBA-14)


1
2
3
4
5
6
7
8
9
10
11
12
AG-7700 ONLY
P4008
AA_GND 1
CH1_FM_IN_2 2
CH1_FM_IN_3 3
AA_GND 4
CH2_FM_IN_2 5
CH2_FM_IN_3 6
AA_GND 7
CH1_LIN_IN_2 8
CH1_LIN_IN_3 9
AA_GND 10
CH2_LIN_IN2 11
CH2_LIN_IN_3 12
R4002
R4001
R4208
SW4004
D4001
D4002
R4003
R4005
C4001
C4002
R4004
R4006
R4007
IC4001
IC4003
R4011
R4009
R4013
R4008
R4010
R4012
R4014
IC4002
R4209
R4015
R4016
D4003
D4004
R4017
R4019
R4021
C4003
C4004
R4018
R4020
R4025
R4023
R4027
R4022
R4024
R4026
R4028
R4029
R4030
R4033
Q4001
R4032
R4034
Q4002
IC4004
C4046
R4094
R4035
R4036
R4039
Q4003
R4038
R4040
Q4004
C4047
R4095
Q4037
Q4038
R4206
R4207
C4050
C4015
C4014
C4045
C4044
C4051
TO REAR_AMP(AUDIO OUT)
(3/4) +12V_I
(3/4) -12V
(3/4) GND
TO AUDIO
P4009
VJP3490B13
1 CH1_FM_IN
2 GND
3 CH2_LINE_IN
4 GND
5 CH2_FM_IN
6 GND
7 -12V
8 +12V_I
9 A5V
10 -5V
11 TC_IN(X)
12 TC_IN(G)
13
IC4005
R4042
R4041
R4210
SW4005
D4005
D4006
R4043
R4045
C4007
C4008
R4044
R4046
R4047
R4051
R4049
R4053
R4048
R4050
R4052
R4054
IC4007
R4069
R4070
R4074
Q4005
R4072
R4073
R4075
Q4006
IC4008
C4048
TO REAR AMP(VIDEO)
(1/4) A5V
(1/4) -5V
(1/4) TC_IN_X
(1/4) TC_G
(1/4) CH1_LINE_IN
(1/4) +12V_I
(1/4) GND
IC4006
R4056
R4055
R4211
SW4005
D4007
D4008
R4057
R4059
R4061
C4009
C4010
R4058
R4060
R4065
R4063
R4067
R4062
R4064
R4066
R4068
R4076
R4077
R4081
Q4007
R4080
R4079
R4082
Q4008
C4049
FROM REAR AMP(VIDEO)
FM_+4DB (1/4)
FM_-6DB (1/4)
LIN_+4DB (1/4)
LIN_-6DB (1/4)
GND
NOT USED
R4212 *PAT/J6
R4215 *PAT/J6
R4213 *PAT/J6
R4214 *PAT/J6

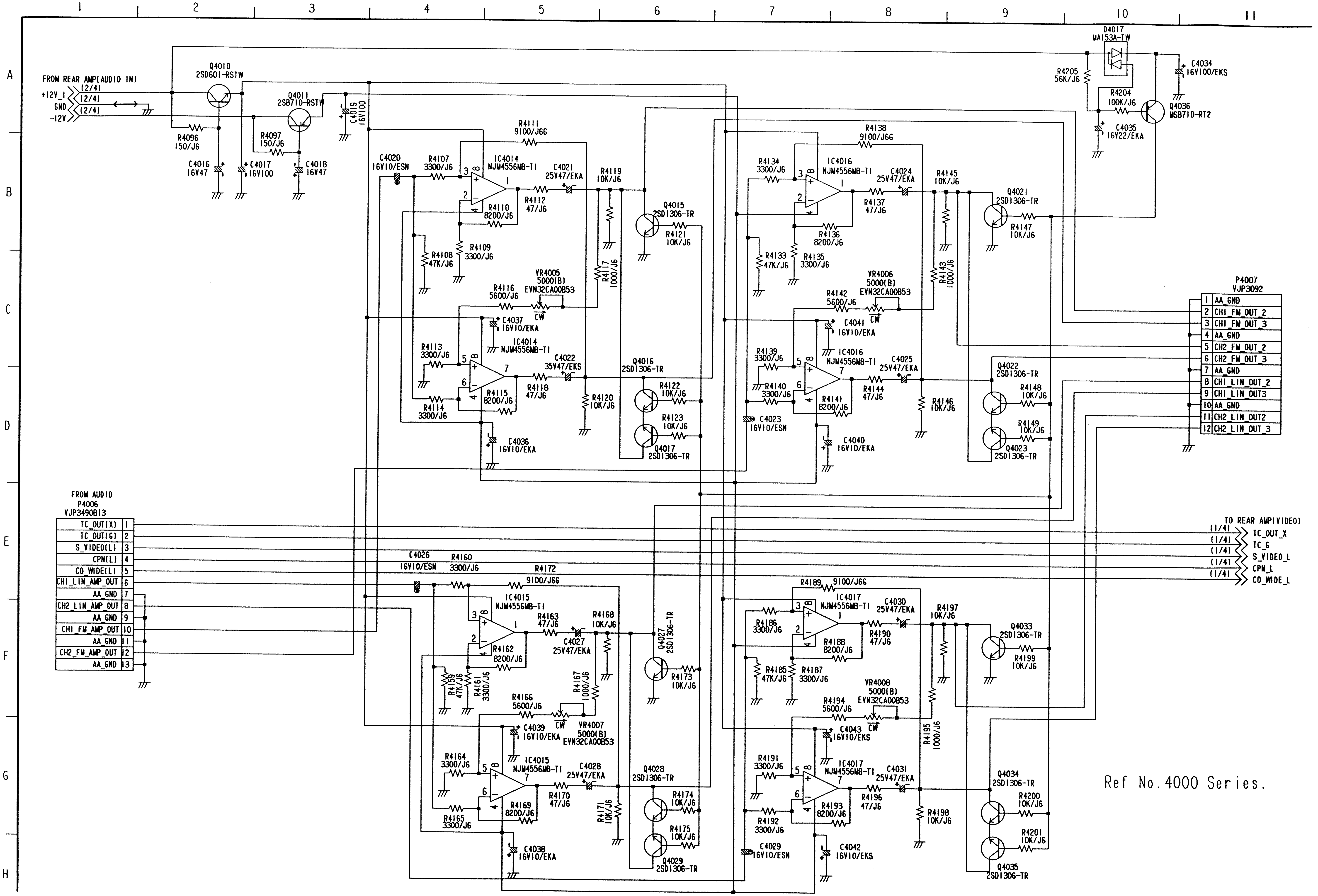
*=REFER TO THE COMPARISON CHART

Ref No.4000 Series.

REAR AMP AUDIO IN DC VOLTAGE CHART

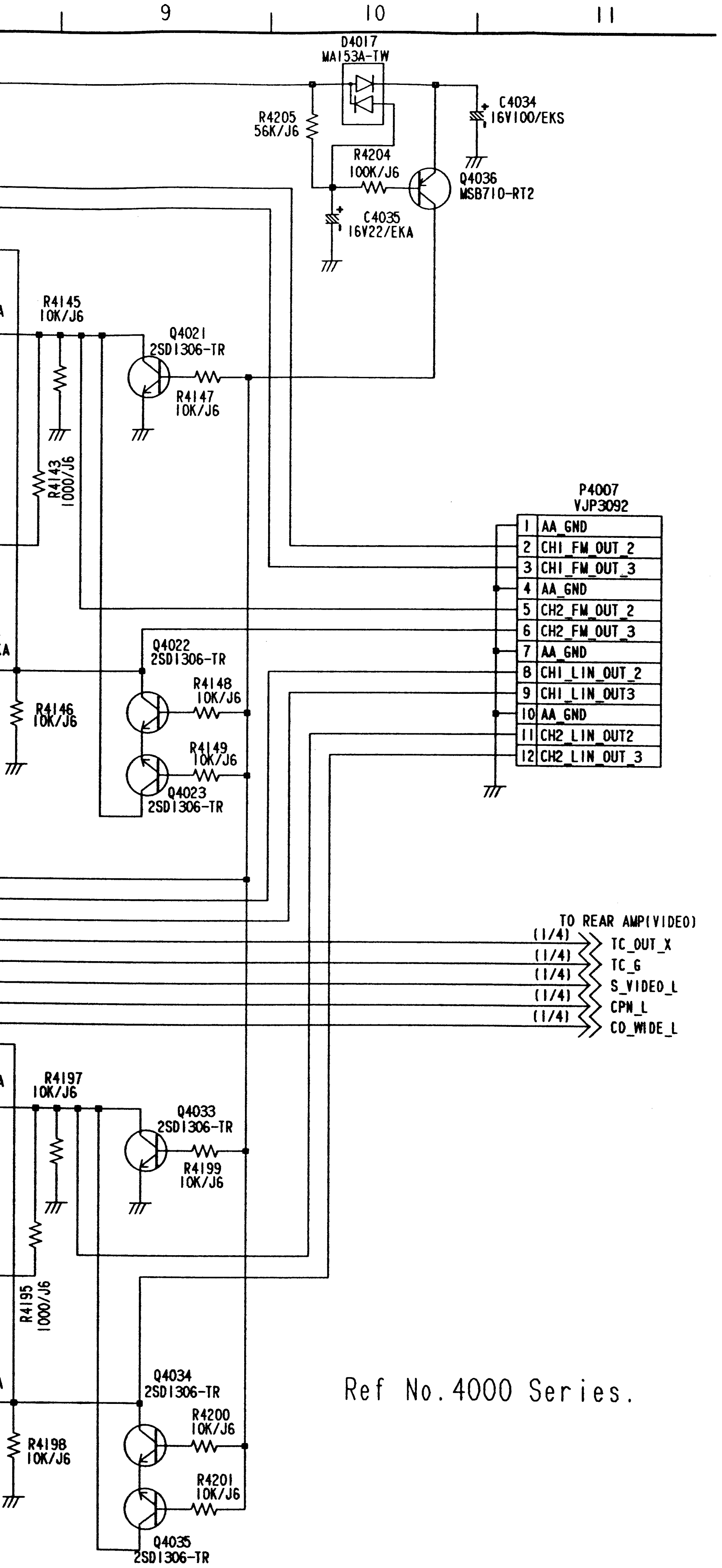
REF. NO.	IC4014									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.4	0	0	0	10.9		
REC	0	0	0	−11.5	0	0	0	10.9		
REF. NO.	IC4015									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.4	0	0	0	10.9		
REC	0	0	0	−11.5	0	0	0	10.9		
REF. NO.	IC4016									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.4	0	0	0	10.9		
REC	0	0	0	−11.5	0	0	0	10.9		
REF. NO.	IC4017									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.4	0	0	0	10.9		
REC	0	0	0	−11.5	0	0	0	10.9		
REF. NO.	Q4010			Q4011			Q4015			
MODE	E	C	B	E	C	B	E	C	B	
STOP	10.9	11.6	11.6	−11.5	−12.2	−12.1	0	0	0	
REC	10.8	11.6	11.6	−11.5	−12.2	−12.1	0	0	0	
REF. NO.	Q4016			Q4017			Q4021			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	0	0	0	0	0	0	0	
REC	0	0	0	0	0	0	0	0	0	
REF. NO.	Q4022			Q4023			Q4027			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	0	0	0	0	0	0	0	
REC	0	0	0	0	0	0	0	0	0	
REF. NO.	Q4028			Q4029			Q4033			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	0	0	0	0	0	0	0	
REC	0	0	0	0	0	0	0	0	0	
REF. NO.	Q4034			Q4035			Q4036			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	0	0	0	0	11.2	0	11.4	
REC	0	0	0	0	0	0	11.2	0	11.4	

REAR AMP AUDIO OUT SCHEMATIC DIAGRAM 3/4 (E28: Page CBA-14)



1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
FROM REAR AMP(AUDIO IN)
+12V_1 (2/4)
GND (2/4)
-12V (2/4)
Q4010 2SD601-RSTW
Q4011 2SB710-RSTW
R4096 150/J6
R4097 150/J6
C4016 16V47
C4017 16V100
C4018 16V47
C4019 16V100
C4020 16V10/ESN
R4107 3300/J6
R4111 9100/J66
IC4014 NJM4556MB-T1
C4021 25V47/EKA
R4112 47/J6
R4110 8200/J6
R4119 10K/J6
R4108 47K/J6
R4109 3300/J6
Q4015 2SD1306-TR
R4121 10K/J6
R4117 1000/J6
R4116 5600/J6
VR4005 5000(B) EVN32CA00B53
CW
C4037 16V10/EKA
R4113 3300/J6
C4022 35V47/EKS
R4118 47/J6
R4115 8200/J6
R4114 3300/J6
R4120 10K/J6
Q4016 2SD1306-TR
R4122 10K/J6
R4123 10K/J6
Q4017 2SD1306-TR
C4036 16V10/EKA
D4017 MA153A-TW
R4205 56K/J6
R4204 100K/J6
C4034 16V100/EKS
C4035 16V22/EKA
Q4036 MSB710-RT2
R4134 3300/J6
R4138 9100/J66
IC4016 NJM4556MB-T1
C4024 25V47/EKA
R4137 47/J6
R4136 8200/J6
R4145 10K/J6
Q4021 2SD1306-TR
R4147 10K/J6
R4133 47K/J6
R4135 3300/J6
R4143 1000/J6
VR4006 5000(B) EVN32CA00B53
R4142 5600/J6
C4041 16V10/EKA
R4139 3300/J6
R4140 3300/J6
R4141 8200/J6
C4025 25V47/EKA
R4144 47/J6
R4146 10K/J6
C4023 16V10/ESN
C4040 16V10/EKA
Q4022 2SD1306-TR
R4148 10K/J6
R4149 10K/J6
Q4023 2SD1306-TR
P4007 VJP3092
1 AA_GND
2 CH1_FM_OUT_2
3 CH1_FM_OUT_3
4 AA_GND
5 CH2_FM_OUT_2
6 CH2_FM_OUT_3
7 AA_GND
8 CH1_LIN_OUT_2
9 CH1_LIN_OUT3
10 AA_GND
11 CH2_LIN_OUT2
12 CH2_LIN_OUT_3
FROM AUDIO P4006 VJP3490B13
TC_OUT(X) 1
TC_OUT(G) 2
S_VIDEO(L) 3
CPN(L) 4
CO_WIDE(L) 5
CH1_LIN_AMP_OUT 6
AA_GND 7
CH2_LIN_AMP_OUT 8
AA_GND 9
CH1_FM_AMP_OUT 10
AA_GND 11
CH2_FM_AMP_OUT 12
AA_GND 13
TO REAR AMP(VIDEO)
(1/4) TC_OUT_X
(1/4) TC_G
(1/4) S_VIDEO_L
(1/4) CPN_L
(1/4) CO_WIDE_L
C4026 16V10/ESN
R4160 3300/J6
R4172 9100/J66
IC4015 NJM4556MB-T1
R4163 47/J6
R4168 10K/J6
C4027 25V47/EKA
R4162 8200/J6
Q4027 2SD1306-TR
R4173 10K/J6
R4159 47K/J6
R4161 3300/J6
R4167 1000/J6
R4166 5600/J6
VR4007 5000(B) EVN32CA00B53
C4039 16V10/EKA
R4164 3300/J6
C4028 25V47/EKA
R4170 47/J6
R4169 8200/J6
R4165 3300/J6
R4171 10K/J6
Q4028 2SD1306-TR
R4174 10K/J6
R4175 10K/J6
Q4029 2SD1306-TR
C4038 16V10/EKA
R4189 9100/J66
IC4017 NJM4556MB-T1
C4030 25V47/EKA
R4197 10K/J6
R4186 3300/J6
R4190 47/J6
R4188 8200/J6
Q4033 2SD1306-TR
R4199 10K/J6
R4185 47K/J6
R4187 3300/J6
VR4008 5000(B) EVN32CA00B53
R4194 5600/J6
C4043 16V10/EKS
R4195 1000/J6
R4191 3300/J6
C4031 25V47/EKA
R4196 47/J6
R4193 8200/J6
R4192 3300/J6
R4198 10K/J6
C4029 16V10/ESN
C4042 16V10/EKS
Q4034 2SD1306-TR
R4200 10K/J6
R4201 10K/J6
Q4035 2SD1306-TR

Ref No.4000 Series.


9
10
11
D4017
MA153A-TW
C4034
16V100/EKS
R4205
56K/J6
R4204
100K/J6
Q4036
MSB710-RT2
C4035
16V22/EKA
R4145
10K/J6
Q4021
2SD1306-TR
R4147
10K/J6
R4143
1000/J6
P4007
VJP3092
1 AA_GND
2 CH1_FM_OUT_2
3 CH1_FM_OUT_3
4 AA_GND
5 CH2_FM_OUT_2
6 CH2_FM_OUT_3
7 AA_GND
8 CH1_LIN_OUT_2
9 CH1_LIN_OUT3
10 AA_GND
11 CH2_LIN_OUT2
12 CH2_LIN_OUT_3
Q4022
2SD1306-TR
R4148
10K/J6
R4146
10K/J6
R4149
10K/J6
Q4023
2SD1306-TR
TO REAR AMP(VIDEO)
(1/4) TC_OUT_X
(1/4) TC_G
(1/4) S_VIDEO_L
(1/4) CPN_L
(1/4) CD_WIDE_L
R4197
10K/J6
Q4033
2SD1306-TR
R4199
10K/J6
R4195
1000/J6
Q4034
2SD1306-TR
R4200
10K/J6
R4198
10K/J6
R4201
10K/J6
Q4035
2SD1306-TR

Ref No.4000 Series.

REAR AMP AUDIO OUT DC VOLTAGE CHART

REF. NO.	IC4001									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.4	0	0	0	10.9		
REC	0	0	0	−11.4	0	0	0	10.9		
REF. NO.	IC4002									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.4	0	0	0	10.9		
REC	0	0	0	−11.4	0	0	0	10.9		
REF. NO.	IC4003									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.4	0	0	0	10.9		
REC	0	0	0	−11.4	0	0	0	10.9		
REF. NO.	IC4004									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.4	0	0	0	10.9		
REC	0	0	0	−11.4	0	0	0	10.9		
REF. NO.	IC4005									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.4	0	0	0	10.9		
REC	0	0	0	−11.4	0	0	0	10.9		
REF. NO.	IC4006									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.4	0	0	0	10.9		
REC	0	0	0	−11.4	0	0	0	10.9		
REF. NO.	IC4007									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.4	0	0	0	10.9		
REC	0	0	0	−11.5	0	0	0	10.9		
REF. NO.	IC4008									
MODE	1	2	3	4	5	6	7	8		
STOP	0	0	0	−11.4	0	0	0	10.9		
REC	0	0	0	−11.5	0	0	0	10.9		
REF. NO.	Q4001			Q4002			Q4003			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	0	0	0	0	0	0	0	
REC	0	0	0	0	0	0	0	0	0	
REF. NO.	Q4004			Q4005			Q4006			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	0	0	0	0	0	0	0	
REC	0	0	0	0	0	0	0	0	0	
REF. NO.	Q4007			Q4008			Q4037			
MODE	E	C	B	E	C	B	E	C	B	
STOP	0	0	0	0	0	0	−11.5	−12.2	−12.1	
REC	0	0	0	0	0	0	−11.5	−12.2	−12.1	
REF. NO.	Q4038									
MODE	E	C	B							
STOP	10.9	11.6	11.6							
REC	10.9	11.6	11.5							

REAR AMP COMPARISON CHART 4/4 (E28: Page

REF	AG-7700	AG-7600
C4001	16V10/EVN	*PAT/EVN
C4002	16V10/EVN	*PAT/EVN
C4003	16V10/EVN	*PAT/EVN
C4004	16V10/EVN	*PAT/EVN
C4007	16V10/EVN	*PAT/EVN
C4008	16V10/EVN	*PAT/EVN
C4009	16V10/EVN	*PAT/EVN
C4010	16V10/EVN	*PAT/EVN
C4014	16V47/EVV	*PAT/EVV
C4015	16V47/EVV	*PAT/EVV
C4044	16V47/EVV	*PAT/EVV
C4045	16V47/EVV	*PAT/EVV
C4046	33P/UN	*PAT/UN
C4047	33P/UN	*PAT/UN
C4048	33P/UN	*PAT/UN
C4049	33P/UN	*PAT/UN
C4050	16V47/EVV	*PAT/EVV
C4051	16V47/EVV	*PAT/EVV
C6601	10V47/EKA	*PAT/EKA
C6602	10V47/EKA	*PAT/EKA
C6603	*PAT/EKS	*PAT/EKS
C6604	0.1/UFN	*PAT/UFN
C6605	10V100/EKA	*PAT/EKA
C6606	0.1/UFN	*PAT/UFN
C6607	0.1/UFN	*PAT/UFN
C6608	*PAT/EKS	*PAT/EKS
C6609	*PAT/EKS	*PAT/EKS
C6625	*PAT/UN	*PAT/UN
C6626	*PAT/UN	*PAT/UN
C6627	*PAT/UN	*PAT/UN
C6634	*PAT/UFN	*PAT/UFN
C6636	*PAT/UFN	*PAT/UFN
C6637	*PAT/EKA	*PAT/EKA
C6638	*PAT/EKA	*PAT/EKA
C6655	39P/UN	39P/UN
C6656	39P/UN	39P/UN
C6659	*PAT/UFN	*PAT/UFN
C6660	*PAT/EKA	*PAT/EKA
C6661	*PAT/UBN	*PAT/UBN
C6665	0.01/UFN	*PAT/UFN
C6667	27P/UN	27P/UN
C6668	27P/UN	27P/UN
C6670	27P/UN	27P/UN
C6671	27P/UN	27P/UN
C6672	0.1/UFN	*PAT/UFN
C6673	0.1/UFN	*PAT/UFN

REF	AG-7700	AG-
C6674	27P/UN	27
C6675	15P/UN	*PA
D4001	MA151WA-TW	*
D4002	MA151WK-TW	*
D4003	MA151WA-TW	*
D4004	MA151WK-TW	*
D4005	MA151WA-TW	*
D4006	MA151WK-TW	*
D4007	MA151WA-TW	*
D4008	MA151WK-TW	*
D6602	MA151K-TW	*
IC4001	NJM4556MB-T1	*
IC4002	NJM4556MB-T1	*
IC4003	NJM4556MB-T1	*
IC4004	AN6558S	*
IC4005	NJM4556MB-T1	*
IC4006	NJM4556MB-T1	*
IC4007	NJM4556MB-T1	*
IC4008	AN6558S	*
IC6601	NJM2233BMAT1	*
IC6609	*PAT	*
IC6612	*PAT	*
IC6613	NJM2233BMAT1	*
L6608	*PAT/QEK	*PAT
L6609	47U/QEK	47U/
L6610	47U/QEK	47U/
L6613	*PAT/QEK	*PAT
P4008	VJP3092	*P
P6604	VJS1468	*P
P6607	*PAT	*P
Q4001	MSD601-RT2	*P
Q4002	MSD601-RT2	*P
Q4003	MSD601-RT2	*P
Q4004	MSD601-RT2	*P
Q4005	MSD601-RT2	*P
Q4006	MSD601-RT2	*P
Q4007	MSD601-RT2	*P
Q4008	MSD601-RT2	*P
Q4037	2SB710-RSTW	*P

REAR AMP COMPARISON CHART 4/4 (E28: Page CBA-14)

REF	AG-7700	AG-7600
C4001	16V10/EVN	*PAT/EVN
C4002	16V10/EVN	*PAT/EVN
C4003	16V10/EVN	*PAT/EVN
C4004	16V10/EVN	*PAT/EVN
C4007	16V10/EVN	*PAT/EVN
C4008	16V10/EVN	*PAT/EVN
C4009	16V10/EVN	*PAT/EVN
C4010	16V10/EVN	*PAT/EVN
C4014	16V47/EVV	*PAT/EVV
C4015	16V47/EVV	*PAT/EVV
C4044	16V47/EVV	*PAT/EVV
C4045	16V47/EVV	*PAT/EVV
C4046	33P/UN	*PAT/UN
C4047	33P/UN	*PAT/UN
C4048	33P/UN	*PAT/UN
C4049	33P/UN	*PAT/UN
C4050	16V47/EVV	*PAT/EVV
C4051	16V47/EVV	*PAT/EVV
C6601	10V47/EKA	*PAT/EKA
C6602	10V47/EKA	*PAT/EKA
C6603	*PAT/EKS	*PAT/EKS
C6604	0.1/UFN	*PAT/UFN
C6605	10V100/EKA	*PAT/EKA
C6606	0.1/UFN	*PAT/UFN
C6607	0.1/UFN	*PAT/UFN
C6608	*PAT/EKS	*PAT/EKS
C6609	*PAT/EKS	*PAT/EKS
C6625	*PAT/UN	*PAT/UN
C6626	*PAT/UN	*PAT/UN
C6627	*PAT/UN	*PAT/UN
C6634	*PAT/UFN	*PAT/UFN
C6636	*PAT/UFN	*PAT/UFN
C6637	*PAT/EKA	*PAT/EKA
C6638	*PAT/EKA	*PAT/EKA
C6655	39P/UN	39P/UN
C6656	39P/UN	39P/UN
C6659	*PAT/UFN	*PAT/UFN
C6660	*PAT/EKA	*PAT/EKA
C6661	*PAT/UBN	*PAT/UBN
C6665	0.01/UFN	*PAT/UFN
C6667	27P/UN	27P/UN
C6668	27P/UN	27P/UN
C6670	27P/UN	27P/UN
C6671	27P/UN	27P/UN
C6672	0.1/UFN	*PAT/UFN
C6673	0.1/UFN	*PAT/UFN

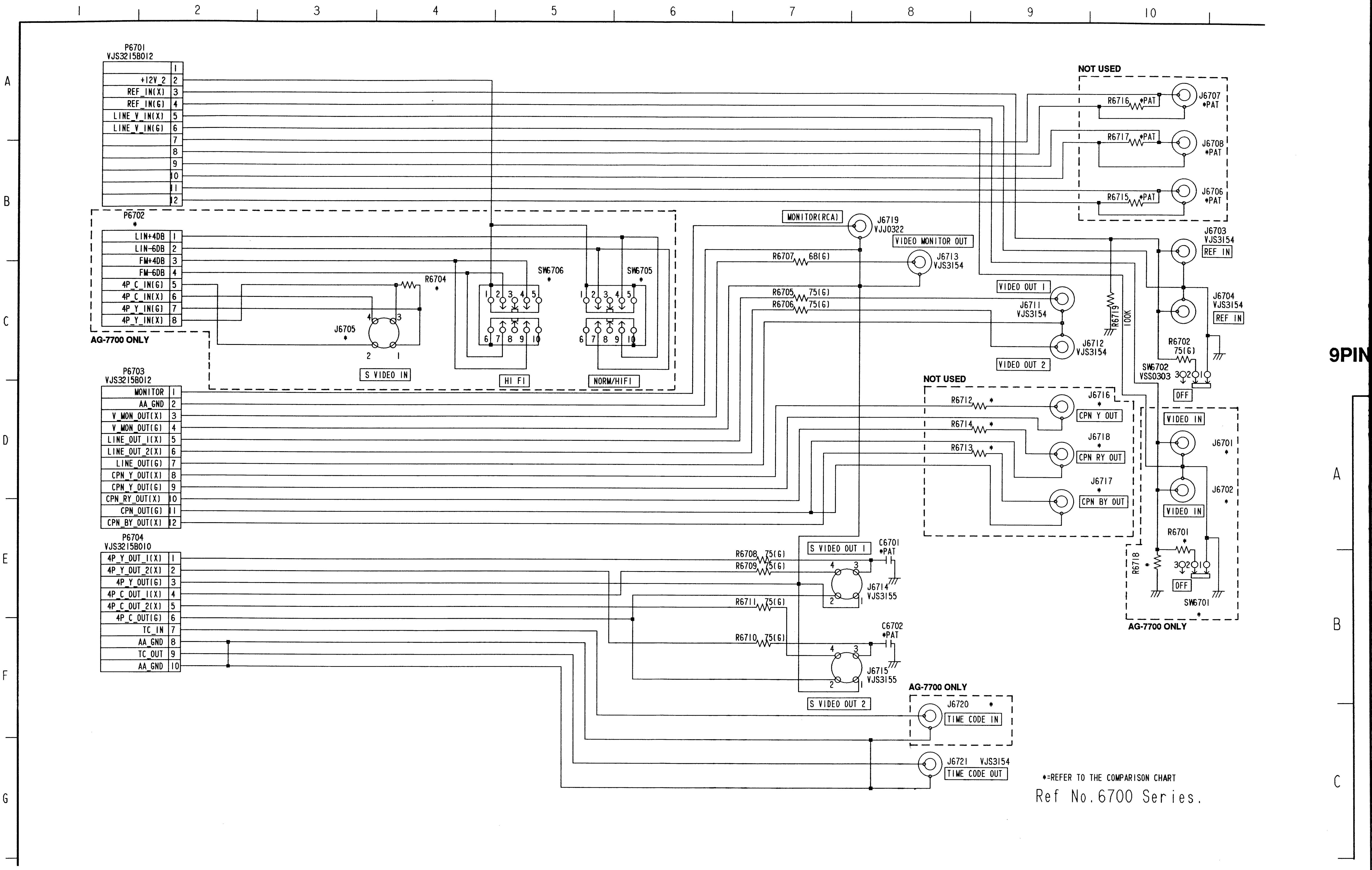
REF	AG-7700	AG-7600
C6674	27P/UN	27P/UN
C6675	15P/UN	*PAT/UN
D4001	MA151WA-TW	*PAT
D4002	MA151WK-TW	*PAT
D4003	MA151WA-TW	*PAT
D4004	MA151WK-TW	*PAT
D4005	MA151WA-TW	*PAT
D4006	MA151WK-TW	*PAT
D4007	MA151WA-TW	*PAT
D4008	MA151WK-TW	*PAT
D6602	MA151K-TW	*PAT
IC4001	NJM4556MB-T1	*PAT
IC4002	NJM4556MB-T1	*PAT
IC4003	NJM4556MB-T1	*PAT
IC4004	AN6558S	*PAT
IC4005	NJM4556MB-T1	*PAT
IC4006	NJM4556MB-T1	*PAT
IC4007	NJM4556MB-T1	*PAT
IC4008	AN6558S	*PAT
IC6601	NJM2233BMAT1	*PAT
IC6609	*PAT	*PAT
IC6612	*PAT	*PAT
IC6613	NJM2233BMAT1	*PAT
L6608	*PAT/QEK	*PAT/QEK
L6609	47U/QEK	47U/QEK
L6610	47U/QEK	47U/QEK
L6613	*PAT/QEK	*PAT/QEK
P4008	VJP3092	*PAT
P6604	VJS1468	*PAT
P6607	*PAT	*PAT
Q4001	MSD601-RT2	*PAT
Q4002	MSD601-RT2	*PAT
Q4003	MSD601-RT2	*PAT
Q4004	MSD601-RT2	*PAT
Q4005	MSD601-RT2	*PAT
Q4006	MSD601-RT2	*PAT
Q4007	MSD601-RT2	*PAT
Q4008	MSD601-RT2	*PAT
Q4037	2SB710-RSTW	*PAT

REF	AG-7700	AG-7600
Q4038	2SD602-RSTW	*PAT
Q6602	MSD601-RT2	*PAT
Q6603	MSD601-RT2	*PAT
Q6604	*PAT	*PAT
Q6605	*PAT	*PAT
Q6607	*PAT	*PAT
Q6608	*PAT	*PAT
Q6613	MSB709-RT2	*PAT
QR6601	*PAT	*PAT
QR6603	MRN1404TE85R	*PAT
QR6607	*PAT	*PAT
R4001	680/J6	*PAT/J6
R4002	47K/J6	*PAT/J6
R4003	47K/J6	*PAT/J6
R4004	8200/J6	*PAT/J6
R4005	8200/J6	*PAT/J6
R4006	100K/J6	*PAT/J6
R4007	100K/J6	*PAT/J6
R4008	3300/RE	*PAT/J6
R4009	4700/RE	*PAT/J6
R4010	4700/RE	*PAT/J6
R4011	4700/RE	*PAT/J6
R4012	4700/RE	*PAT/J6
R4013	4700/RE	*PAT/J6
R4014	4700/RE	*PAT/J6
R4015	47K/J6	*PAT/J6
R4016	680/J6	*PAT/J6
R4017	47K/J6	*PAT/J6
R4018	8200/J6	*PAT/J6
R4019	8200/J6	*PAT/J6
R4020	100K/J6	*PAT/J6
R4021	100K/J6	*PAT/J6
R4022	3300/RE	*PAT/J6
R4023	4700/RE	*PAT/J6
R4024	4700/RE	*PAT/J6
R4025	4700/RE	*PAT/J6
R4026	4700/RE	*PAT/J6
R4027	4700/RE	*PAT/J6
R4028	4700/RE	*PAT/J6
R4029	10K/J6	*PAT/J6
R4030	18K/J6	*PAT/J6
R4032	10K/J6	*PAT/J6
R4033	10K/J6	*PAT/J6
R4034	10K/J6	*PAT/J6
R4035	10K/J6	*PAT/J6
R4036	18K/J6	*PAT/J6

REF	AG-7700	AG-7600
R4038	10K/J6	*PAT/J6
R4039	10K/J6	*PAT/J6
R4040	10K/J6	*PAT/J6
R4041	680/J6	*PAT/J6
R4042	47K/J6	*PAT/J6
R4043	47K/J6	*PAT/J6
R4044	8200/J6	*PAT/J6
R4045	8200/J6	*PAT/J6
R4046	100K/J6	*PAT/J6
R4047	100K/J6	*PAT/J6
R4048	3300/RE	*PAT/J6
R4049	4700/RE	*PAT/J6
R4050	4700/RE	*PAT/J6
R4051	4700/RE	*PAT/J6
R4052	4700/RE	*PAT/J6
R4053	4700/RE	*PAT/J6
R4054	4700/RE	*PAT/J6
R4055	680/J6	*PAT/J6
R4056	47K/J6	*PAT/J6
R4057	47K/J6	*PAT/J6
R4058	8200/J6	*PAT/J6
R4059	8200/J6	*PAT/J6
R4060	100K/J6	*PAT/J6
R4061	100K/J6	*PAT/J6
R4062	3300/RE	*PAT/J6
R4063	4700/RE	*PAT/J6
R4064	4700/RE	*PAT/J6
R4065	4700/RE	*PAT/J6
R4066	4700/RE	*PAT/J6
R4067	4700/RE	*PAT/J6
R4068	4700/RE	*PAT/J6
R4069	10K/J6	*PAT/J6
R4070	18K/J6	*PAT/J6
R4072	10K/J6	*PAT/J6
R4073	10K/J6	*PAT/J6
R4074	10K/J6	*PAT/J6
R4075	10K/J6	*PAT/J6
R4076	10K/J6	*PAT/J6

REF	AG-7700	AG-7600
R4077	18K/J6	*PAT/J6
R4079	10K/J6	*PAT/J6
R4080	10K/J6	*PAT/J6
R4081	10K/J6	*PAT/J6
R4082	10K/J6	*PAT/J6
R4094	10K/J6	*PAT/J6
R4095	10K/J6	*PAT/J6
R4206	150/J6	*PAT/J6
R4207	150/J6	*PAT/J6
R4208	5600/J6	*PAT/J6
R4209	5600/J6	*PAT/J6
R4210	5600/J6	*PAT/J6
R4211	5600/J6	*PAT/J6
R4212	*PAT/J6	*PAT/J6
R4213	*PAT/J6	*PAT/J6
R4214	*PAT/J6	*PAT/J6
R4215	*PAT/J6	*PAT/J6
R6601	3300/J6	*PAT/J6
R6602	47/J6	*PAT/J6
R6603	*PAT/J6	*PAT/J6
R6604	75/G6	*PAT/J6
R6607	47/J6	*PAT/J6
R6608	1000/J6	*PAT/J6
R6609	4700/J6	*PAT/J6
R6610	2700/J6	*PAT/J6
R6612	*PAT/J6	*PAT/J6
R6613	*PAT/J6	*PAT/J6
R6614	*PAT/J6	*PAT/J6
R6615	*PAT/J6	*PAT/J6
R6616	*PAT/J6	*PAT/J6
R6617	*PAT/J6	*PAT/J6
R6625	*PAT/J6	*PAT/J6
R6626	*PAT/J6	*PAT/J6
R6634	*PAT/J6	*PAT/J6
R6635	*PAT/J6	*PAT/J6
R6636	*PAT/J6	*PAT/J6
R6637	*PAT/J6	*PAT/J6
R6638	*PAT/J6	*PAT/J6
R6647	*PAT/RE	*PAT/RE
R6648	*PAT/RE	*PAT/RE
R6651	0/J6	0/J6
R6666	*PAT/J6	*PAT/J6
R6667	*PAT/J6	*PAT/J6
R6668	10K/J6	*PAT/J6
R6669	120K/J6	*PAT/J6
R6670	1000/J6	*PAT/J6
R6671	220/J6	*PAT/J6
R6675	3300/J6	*PAT/J6
R6676	0/J6	0/J6
R6679	10K/J6	*PAT/J6
SW4004	VSS0208	*PAT
SW4005	VSS0208	*PAT
X6601	VSX0316	VSX0316

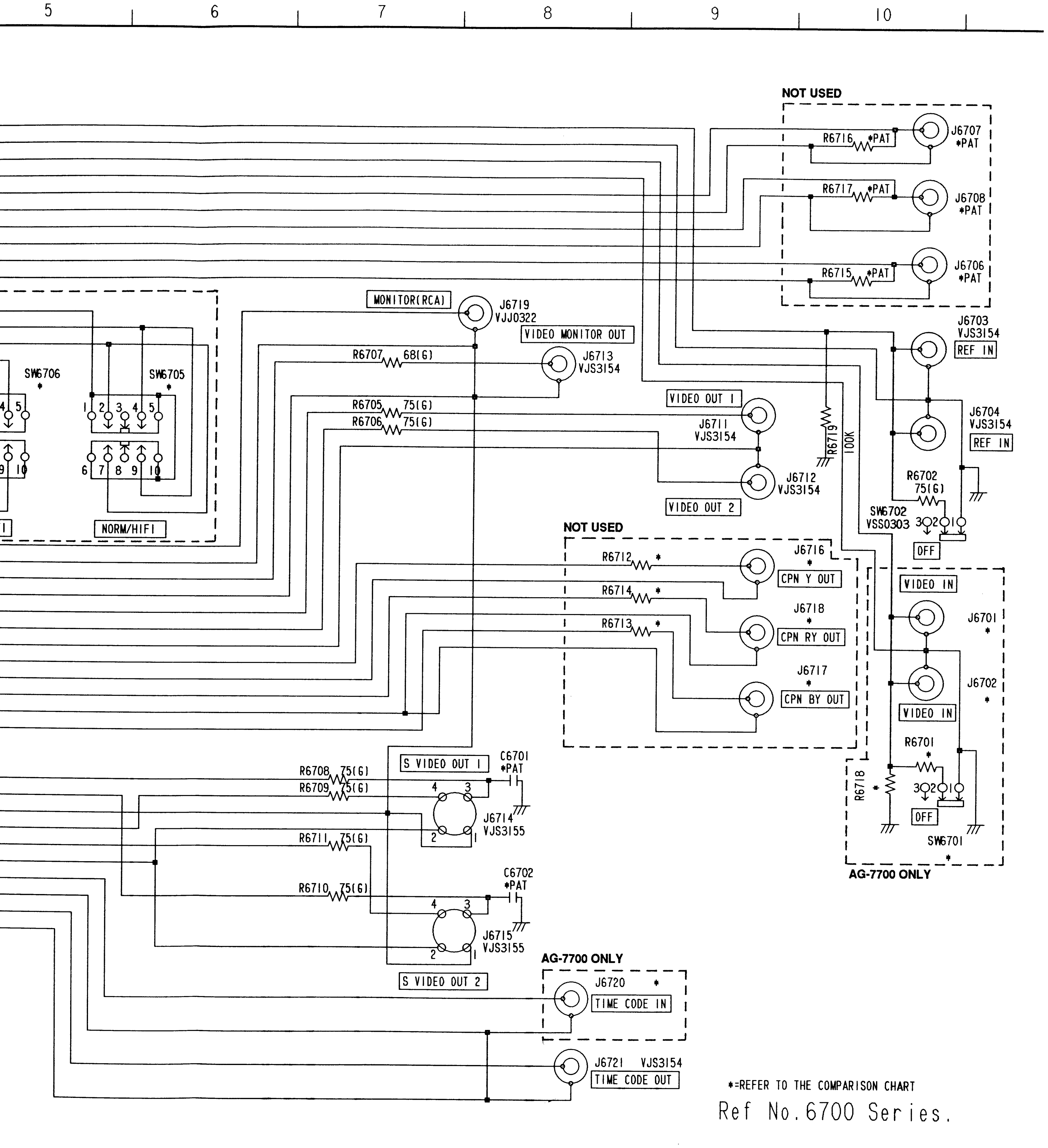
REAR JACK SCHEMATIC DIAGRAM 1/2 (E29: Page CBA-16)


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
P6701
VJS3215B012
+12V_2
REF_IN(X)
REF_IN(G)
LINE_V_IN(X)
LINE_V_IN(G)
P6702
LIN+4DB
LIN-6DB
FM+4DB
FM-6DB
4P_C_IN(G)
4P_C_IN(X)
4P_Y_IN(G)
4P_Y_IN(X)
AG-7700 ONLY
R6704
J6705
S VIDEO IN
SW6706
HI FI
SW6705
NORM/HIFI
P6703
VJS3215B012
MONITOR
AA_GND
V_MON_OUT(X)
V_MON_OUT(G)
LINE_OUT_1(X)
LINE_OUT_2(X)
LINE_OUT(G)
CPN_Y_OUT(X)
CPN_Y_OUT(G)
CPN_RY_OUT(X)
CPN_OUT(G)
CPN_BY_OUT(X)
P6704
VJS3215B010
4P_Y_OUT_1(X)
4P_Y_OUT_2(X)
4P_Y_OUT(G)
4P_C_OUT_1(X)
4P_C_OUT_2(X)
4P_C_OUT(G)
TC_IN
AA_GND
TC_OUT
AA_GND
MONITOR(RCA)
J6719
VJJ0322
VIDEO MONITOR OUT
R6707 68(G)
J6713
VJS3154
R6705 75(G)
R6706 75(G)
VIDEO OUT 1
J6711
VJS3154
J6712
VJS3154
VIDEO OUT 2
R6719
100K
NOT USED
R6716 *PAT
J6707 *PAT
R6717 *PAT
J6708 *PAT
R6715 *PAT
J6706 *PAT
J6703
VJS3154
REF IN
J6704
VJS3154
REF IN
R6702
75(G)
SW6702
VSS0303
OFF
NOT USED
R6712 *
J6716 *
CPN Y OUT
R6714 *
J6718 *
CPN RY OUT
R6713 *
J6717 *
CPN BY OUT
VIDEO IN
J6701 *
J6702 *
VIDEO IN
R6701 *
R6718 *
OFF
SW6701 *
AG-7700 ONLY
S VIDEO OUT 1
C6701 *PAT
R6708 75(G)
R6709 75(G)
J6714
VJS3155
R6711 75(G)
C6702 *PAT
R6710 75(G)
J6715
VJS3155
S VIDEO OUT 2
AG-7700 ONLY
J6720 *
TIME CODE IN
J6721 VJS3154
TIME CODE OUT
RE
9PIN
A
B
C

*=REFER TO THE COMPARISON CHART

Ref No.6700 Series.

16)


5
6
7
8
9
10
NOT USED
R6716 *PAT
J6707 *PAT
R6717 *PAT
J6708 *PAT
R6715 *PAT
J6706 *PAT
MONITOR(RCA)
J6719 VJJ0322
VIDEO MONITOR OUT
R6707 68(G)
J6713 VJS3154
J6703 VJS3154
REF IN
SW6706
SW6705
R6705 75(G)
R6706 75(G)
VIDEO OUT 1
J6711 VJS3154
J6712 VJS3154
VIDEO OUT 2
R6719 100K
J6704 VJS3154
REF IN
R6702 75(G)
SW6702 VSS0303
OFF
NORM/HIFI
NOT USED
R6712 *
J6716 *
CPN Y OUT
R6714 *
J6718 *
CPN RY OUT
R6713 *
J6717 *
CPN BY OUT
VIDEO IN
J6701 *
J6702 *
VIDEO IN
R6701 *
R6718 *
OFF
SW6701 *
AG-7700 ONLY
S VIDEO OUT 1
C6701 *PAT
R6708 75(G)
R6709 75(G)
J6714 VJS3155
R6711 75(G)
R6710 75(G)
C6702 *PAT
J6715 VJS3155
S VIDEO OUT 2
AG-7700 ONLY
J6720 *
TIME CODE IN
J6721 VJS3154
TIME CODE OUT

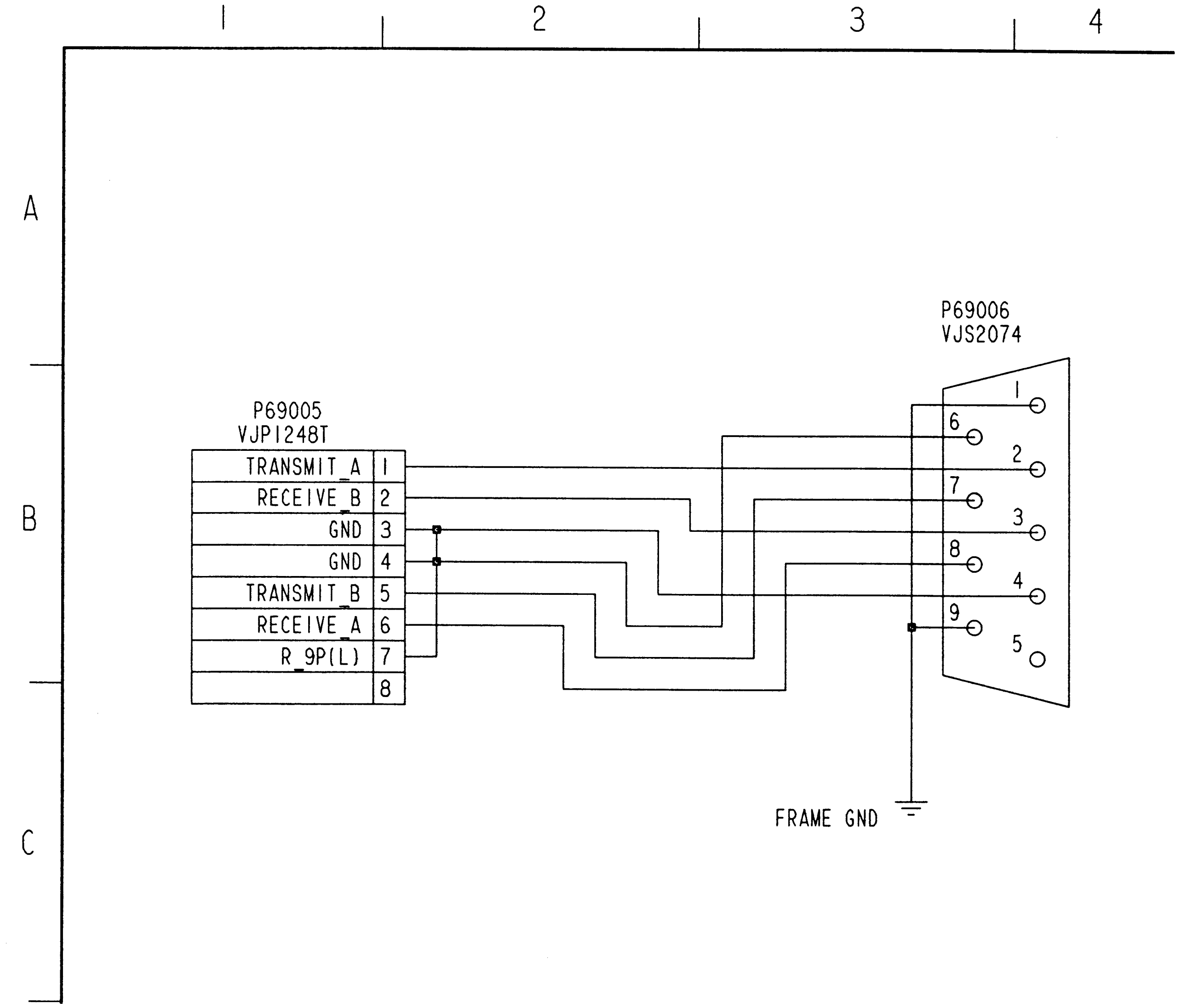
*=REFER TO THE COMPARISON CHART

Ref No.6700 Series.

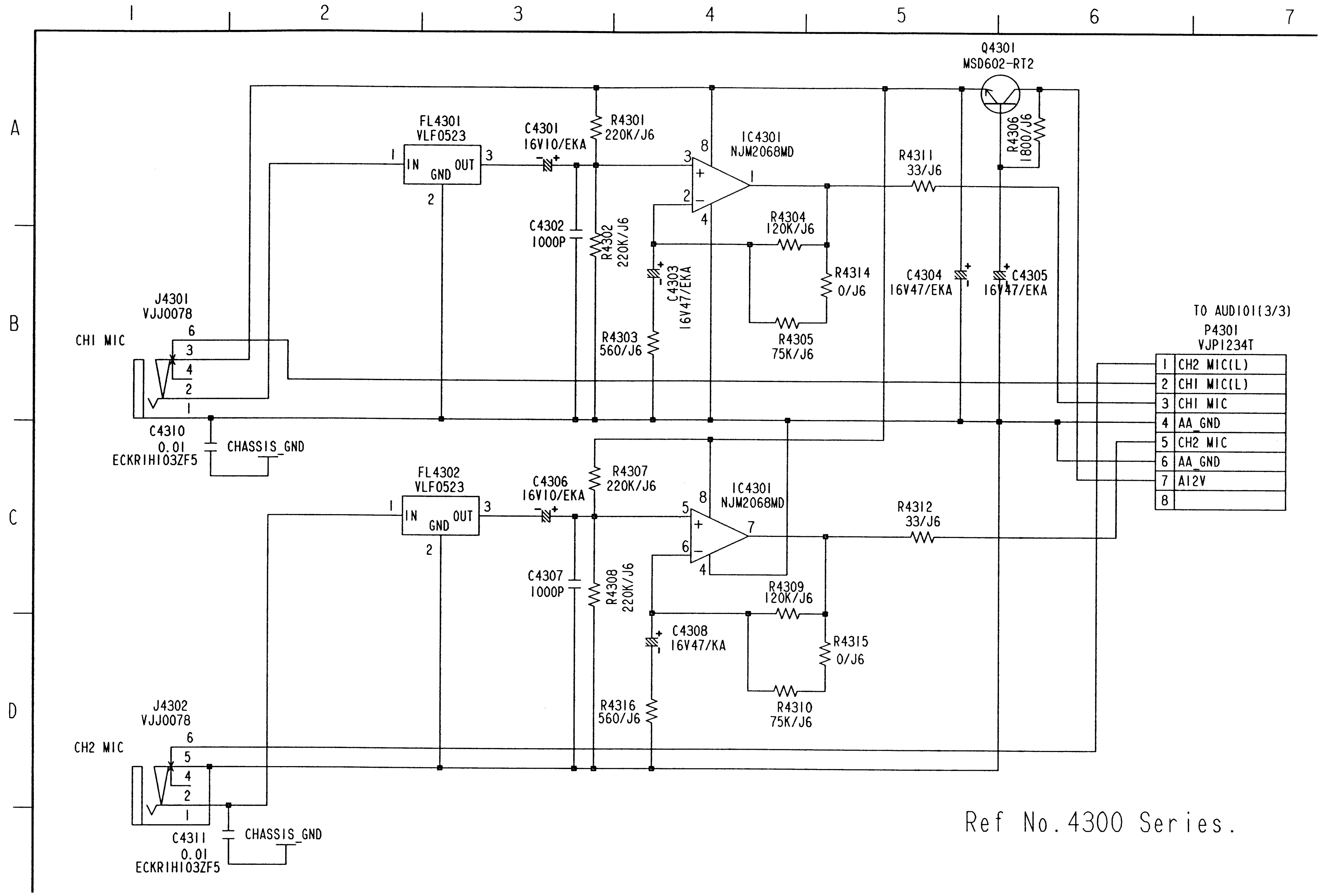
REAR JACK COMPARISON CHART 2/2 (E29: Page CBA-16)

REF	AG-7700	AG-7600
C6701	*PAT	*PAT
C6702	*PAT	*PAT
J6701	VJS3154	*PAT
J6702	VJS3154	*PAT
J6705	VJS3155	*PAT
J6720	VJS3154	*PAT
P6702	VJS3215B008	*PAT
R6701	75(G)	*PAT
R6704	75(G)	*PAT
R6718	100K/DS	*PAT
SW6701	VSS0303	*PAT
SW6705	VSS0390	*PAT
SW6706	VSS0390	*PAT

9PIN CONNECT SCHEMATIC DIAGRAM (E33: Page CBA-11)


1
2
3
4
A
B
C
P69005
VJP1248T
TRANSMIT_A 1
RECEIVE_B 2
GND 3
GND 4
TRANSMIT_B 5
RECEIVE_A 6
R_9P(L) 7
8
P69006
VJS2074
1
6
2
7
3
8
4
9
5
FRAME GND

MIC JACK SCHEMATIC DIAGRAM (E20: AG-7700 0NLY/Page CBA-4)

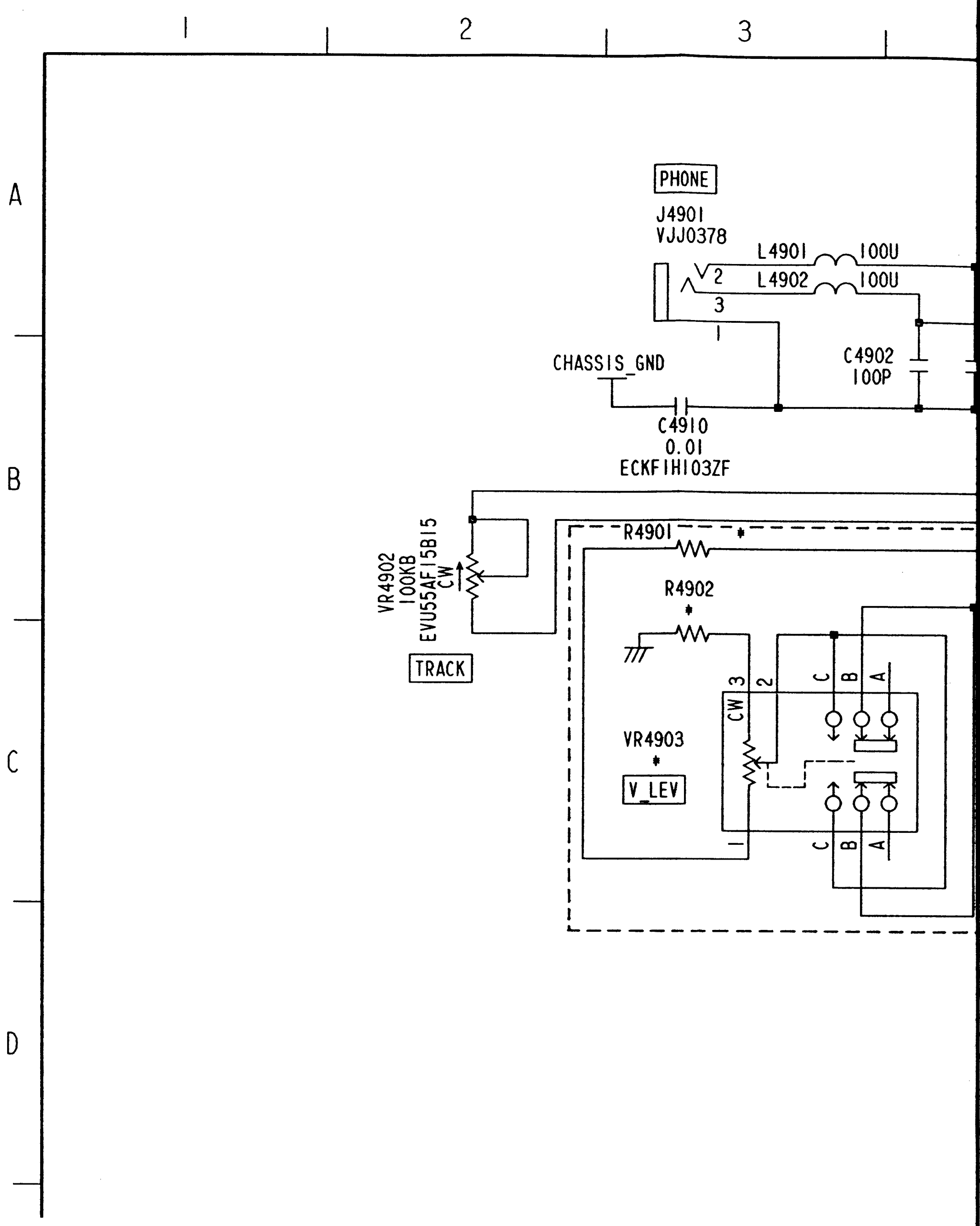


1
2
3
4
5
6
7
A
B
C
D
Q4301
MSD602-RT2
FL4301
VLF0523
IN
GND
OUT
C4301
16V10/EKA
R4301
220K/J6
IC4301
NJM2068MD
R4311
33/J6
R4306
1800/J6
C4302
1000P
R4302
220K/J6
C4303
16V47/EKA
R4304
120K/J6
R4314
0/J6
C4304
16V47/EKA
C4305
16V47/EKA
J4301
VJJ0078
CH1 MIC
R4303
560/J6
R4305
75K/J6
TO AUDIO1(3/3)
P4301
VJP1234T
1 CH2 MIC(L)
2 CH1 MIC(L)
3 CH1 MIC
4 AA_GND
5 CH2 MIC
6 AA_GND
7 A12V
8
C4310
0.01
ECKR1H103ZF5
CHASSIS_GND
FL4302
VLF0523
C4306
16V10/EKA
R4307
220K/J6
IC4301
NJM2068MD
R4312
33/J6
C4307
1000P
R4308
220K/J6
R4309
120K/J6
C4308
16V47/KA
R4315
0/J6
R4316
560/J6
R4310
75K/J6
J4302
VJJ0078
CH2 MIC
C4311
0.01
ECKR1H103ZF5
CHASSIS_GND
Ref No.4300 Series.

MIC JACK DC VOLTAGE CHART

REF. NO.	IC4301									
MODE	1	2	3	4	5	6	7	8		
STOP	5.5	5.5	5.5	0	5.6	5.7	5.7	10.9		
REC	5.5	5.5	5.5	0	5.6	5.7	5.7	10.9		
REF. NO.	Q4301									
MODE	E	C	B							
STOP	10.9	11.6	11.6							
REC	10.9	11.6	11.6							

FRONT JACK SCHEMATIC DIAGRAM 1/2 (E19: Pa

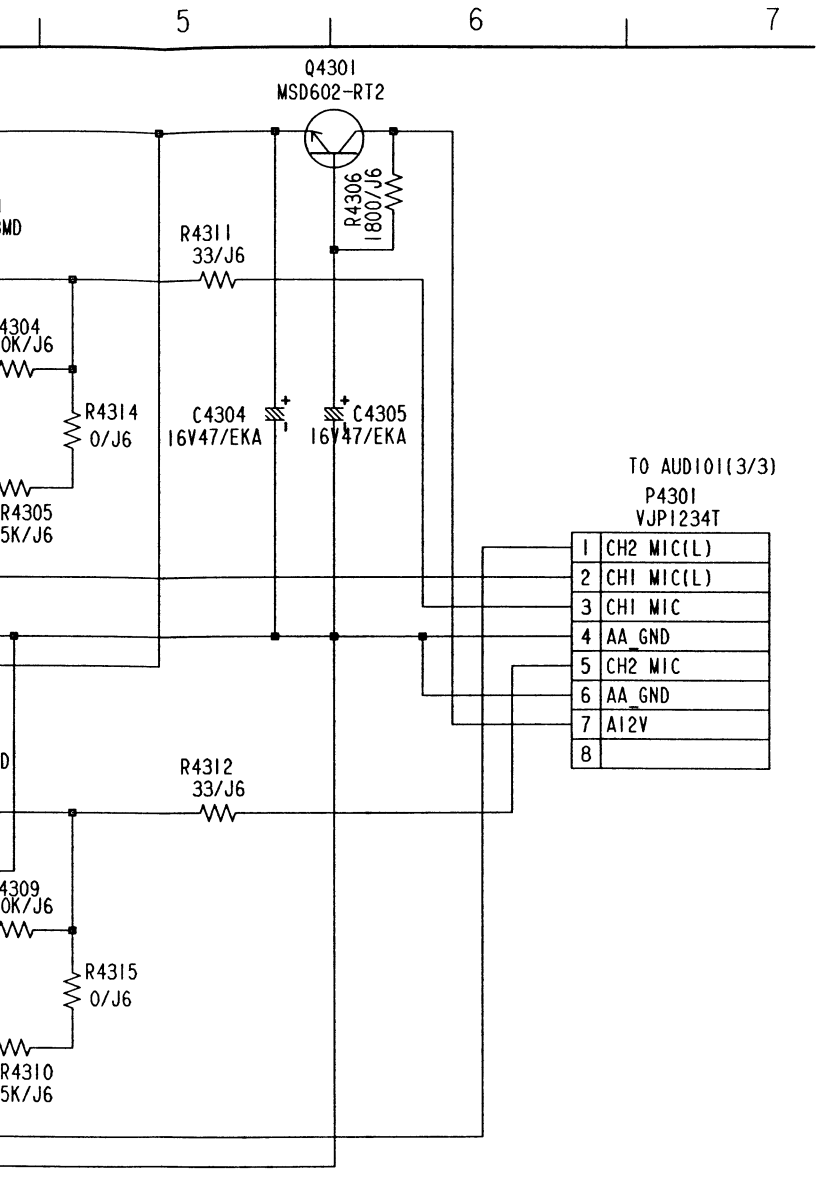


1
2
3
A
B
C
D
PHONE
J4901
VJJ0378
L4901
100U
L4902
100U
CHASSIS_GND
C4902
100P
C4910
0.01
ECKF1H103ZF
VR4902
100KB
EVU55AF15B15
CW
TRACK
R4901
R4902
VR4903
V_LEV
CW
C
B
A

FRONT JACK COMPARISON CHART 2/2 (E19:

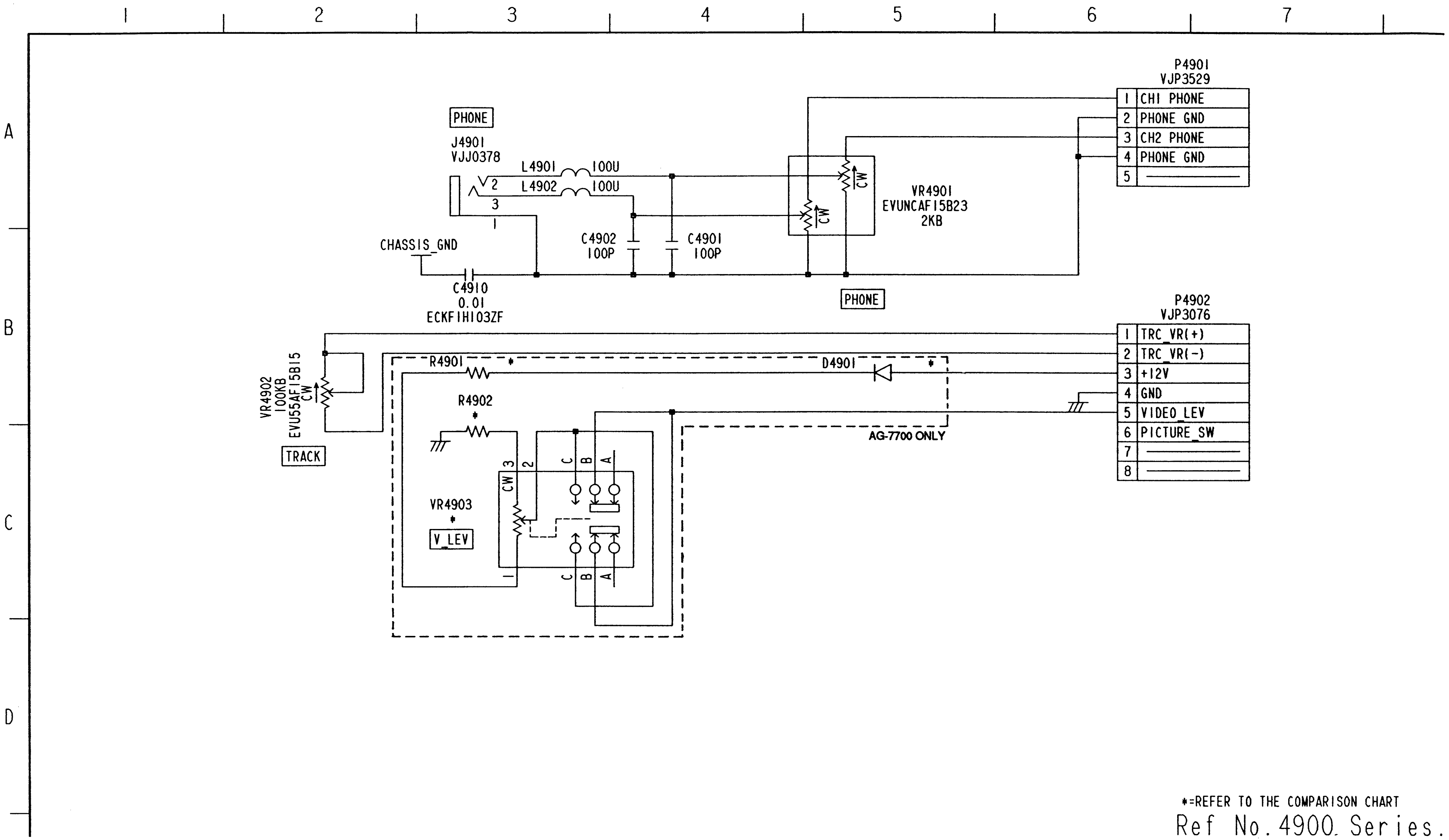
REF	AG-7700	AG-7600
D4901	MA165TA5VT	*PAT
R4901	33K/DS	*PAT/DS
R4902	8200/DS	*PAT/DS
R4903	*PAT/DS	*PAT/DS
R4904	*PAT/DS	*PAT/DS
R4905	*PAT/DS	*PAT/DS
R4906	*PAT/DS	*PAT/DS
SW4901	*PAT	*PAT
VR4903	EVU023015B14	*PAT

ge CBA-4)


5
6
7
Q4301
MSD602-RT2
R4306
1800/J6
MD
R4311
33/J6
4304
0K/J6
R4314
0/J6
C4304
16V47/EKA
C4305
16V47/EKA
R4305
5K/J6
TO AUDIO1(3/3)
P4301
VJP1234T
1 CH2 MIC(L)
2 CH1 MIC(L)
3 CH1 MIC
4 AA_GND
5 CH2 MIC
6 AA_GND
7 A12V
8
D
R4312
33/J6
4309
0K/J6
R4315
0/J6
R4310
5K/J6

Ref No.4300 Series.

FRONT JACK SCHEMATIC DIAGRAM 1/2 (E19: Page CBA-4)


1
2
3
4
5
6
7
A
B
C
D
P4901
VJP3529
1 CH1 PHONE
2 PHONE GND
3 CH2 PHONE
4 PHONE GND
5
PHONE
J4901
VJJ0378
L4901 100U
L4902 100U
2
3
1
VR4901
EVUNCAF15B23
2KB
CW
CHASSIS_GND
C4902
100P
C4901
100P
C4910
0.01
ECKF1H103ZF
PHONE
P4902
VJP3076
1 TRC_VR(+)
2 TRC_VR(-)
3 +12V
4 GND
5 VIDEO_LEV
6 PICTURE_SW
7
8
VR4902
100KB
EVU55AF15B15
CW
TRACK
R4901 *
D4901 *
R4902
*
AG-7700 ONLY
VR4903
*
V_LEV
CW 3
2
1
C B A
C B A

*=REFER TO THE COMPARISON CHART

Ref No.4900 Series.

FRONT JACK COMPARISON CHART 2/2 (E19: Page CBA-4)

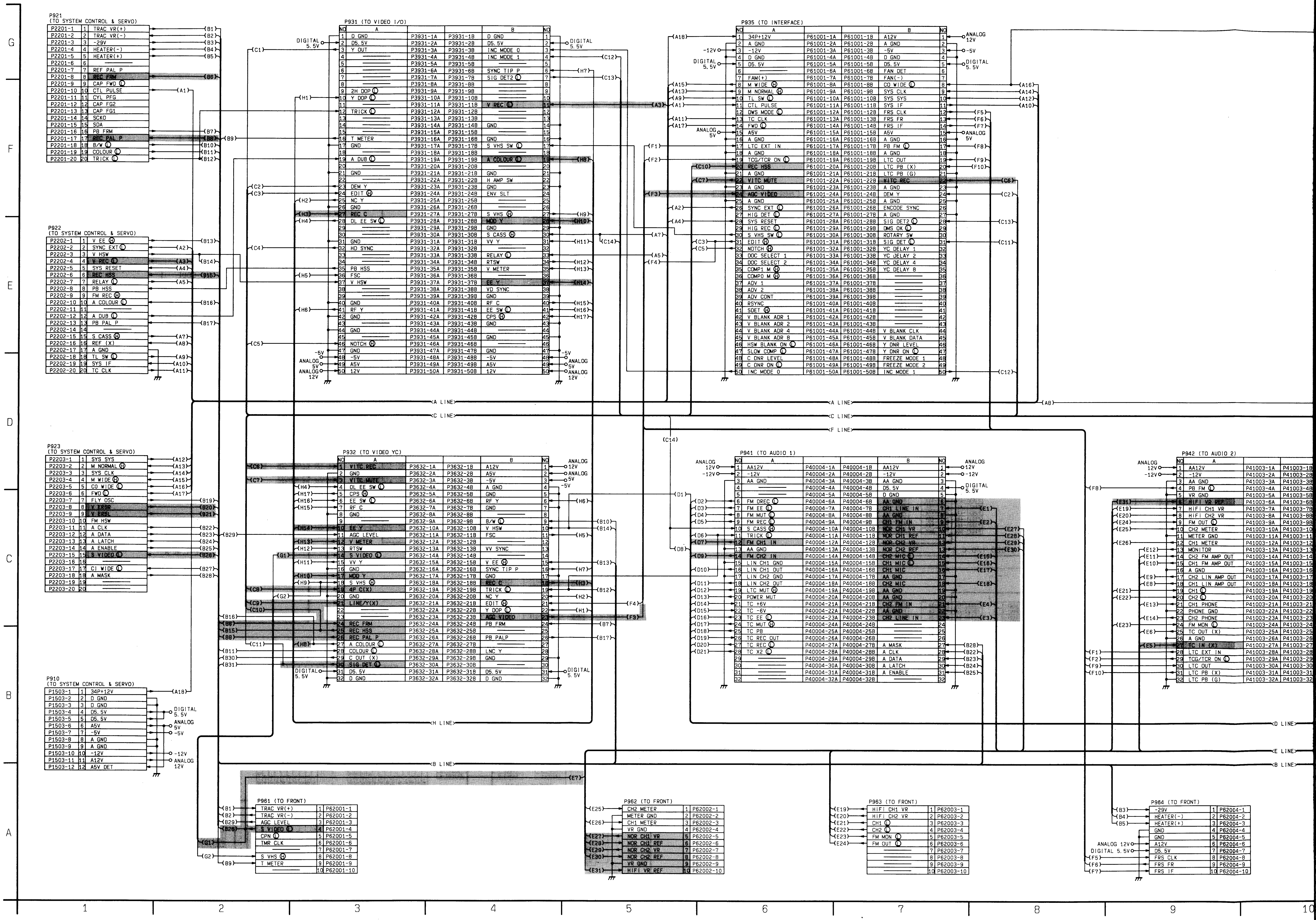
MIC JACK DC VOLTAGE CHART

REF. NO. \ MODE	IC4301									
MODE	1	2	3	4	5	6	7	8		
STOP	5.5	5.5	5.5	0	5.6	5.7	5.7	10.9		
REC	5.5	5.5	5.5	0	5.6	5.7	5.7	10.9		
REF. NO.	Q4301									
MODE	E	C	B							
STOP	10.9	11.6	11.6							
REC	10.9	11.6	11.6							

REF	AG-7700	AG-7600
D4901	MA165TA5VT	*PAT
R4901	33K/DS	*PAT/DS
R4902	8200/DS	*PAT/DS
R4903	*PAT/DS	*PAT/DS
R4904	*PAT/DS	*PAT/DS
R4905	*PAT/DS	*PAT/DS
R4906	*PAT/DS	*PAT/DS
SW4901	*PAT	*PAT
VR4903	EVU023015B14	*PAT

MOTHER SCHEMATIC DIAGRAM (E4: Page CBA-4)

AG-7700 only have components and/or wires identified by shade ▨ mark on this schematic diagram.



P921
(TO SYSTEM CONTROL & SERVO)

P2201-1	1	TRAC VR(+)
P2201-2	2	TRAC VR(-)
P2201-3	3	-29V
P2201-4	4	HEATER(-)
P2201-5	5	HEATER(+)
P2201-6	6	—
P2201-7	7	REF PAL P
P2201-8	8	REC FRM
P2201-9	9	CAP FWD Ⓛ
P2201-10	10	CTL PULSE
P2201-11	11	CYL PFG
P2201-12	12	CAP FG2
P2201-13	13	CAP FG1
P2201-14	14	SCKO
P2201-15	15	SDA
P2201-16	16	PB FRM
P2201-17	17	REC PAL P
P2201-18	18	B/W Ⓛ
P2201-19	19	COLOUR Ⓛ
P2201-20	20	TRICK Ⓛ

P922
(TO SYSTEM CONTROL & SERVO)

P2202-1	1	V EE Ⓗ
P2202-2	2	SYNC EXT Ⓛ
P2202-3	3	V HSW
P2202-4	4	V REC Ⓛ
P2202-5	5	SYS RESET
P2202-6	6	REC HSS
P2202-7	7	RELAY Ⓛ
P2202-8	8	PB HSS
P2202-9	9	FM REC Ⓗ
P2202-10	10	A COLOUR Ⓛ
P2202-11	11	—
P2202-12	12	A DUB Ⓛ
P2202-13	13	PB PAL P
P2202-14	14	—
P2202-15	15	S CASS Ⓗ
P2202-16	16	REF (X)
P2202-17	17	A GND
P2202-18	18	TL SW Ⓛ
P2202-19	19	SYS IF
P2202-20	20	TC CLK

P923
(TO SYSTEM CONTROL & SERVO)

P2203-1	1	SYS SYS
P2203-2	2	M NORMAL Ⓗ
P2203-3	3	SYS CLK
P2203-4	4	M WIDE Ⓗ
P2203-5	5	CO WIDE Ⓛ
P2203-6	6	FWD Ⓛ
P2203-7	7	FLY OSC
P2203-8	8	Y ERSR
P2203-9	9	Y ERSL
P2203-10	10	FM HSW
P2203-11	11	A CLK
P2203-12	12	A DATA
P2203-13	13	A LATCH
P2203-14	14	A ENABLE
P2203-15	15	S VIDEO Ⓛ
P2203-16	16	—
P2203-17	17	CI WIDE Ⓛ
P2203-18	18	A MASK
P2203-19	19	—
P2203-20	20	—

P910
(TO SYSTEM CONTROL & SERVO)

P1503-1	1	34P+12V
P1503-2	2	D GND
P1503-3	3	D GND
P1503-4	4	D5.5V
P1503-5	5	D5.5V
P1503-6	6	A5V
P1503-7	7	-5V
P1503-8	8	A GND
P1503-9	9	A GND
P1503-10	10	-12V
P1503-11	11	A12V
P1503-12	12	A5V DET

P931 (TO VIDEO I/O)

NO	A			B	NO
1	D GND	P3931-1A	P3931-1B	D GND	1
2	D5.5V	P3931-2A	P3931-2B	D5.5V	2
3	Y OUT	P3931-3A	P3931-3B	INC MODE 0	3
4	—	P3931-4A	P3931-4B	INC MODE 1	4
5	—	P3931-5A	P3931-5B	—	5
6	—	P3931-6A	P3931-6B	SYNC TIP P	6
7	—	P3931-7A	P3931-7B	SIG DET2 Ⓛ	7
8	—	P3931-8A	P3931-8B	—	8
9	2H DOP Ⓛ	P3931-9A	P3931-9B	—	9
10	Y DOP Ⓛ	P3931-10A	P3931-10B	—	10
11	—	P3931-11A	P3931-11B	V REC Ⓛ	11
12	TRICK Ⓛ	P3931-12A	P3931-12B	—	12
13	—	P3931-13A	P3931-13B	—	13
14	—	P3931-14A	P3931-14B	GND	14
15	—	P3931-15A	P3931-15B	—	15
16	T METER	P3931-16A	P3931-16B	GND	16
17	GND	P3931-17A	P3931-17B	S VHS SW Ⓛ	17
18	—	P3931-18A	P3931-18B	—	18
19	A DUB Ⓛ	P3931-19A	P3931-19B	A COLOUR Ⓛ	19
20	—	P3931-20A	P3931-20B	—	20
21	GND	P3931-21A	P3931-21B	GND	21
22	—	P3931-22A	P3931-22B	H AMP SW	22
23	DEM Y	P3931-23A	P3931-23B	GND	23
24	EDIT Ⓗ	P3931-24A	P3931-24B	ENV SLT	24
25	NC Y	P3931-25A	P3931-25B	—	25
26	GND	P3931-26A	P3931-26B	—	26
27	REC C	P3931-27A	P3931-27B	S VHS Ⓗ	27
28	DL EE SW Ⓛ	P3931-28A	P3931-28B	MOD Y	28
29	—	P3931-29A	P3931-29B	GND	29
30	—	P3931-30A	P3931-30B	S CASS Ⓗ	30
31	GND	P3931-31A	P3931-31B	VV Y	31
32	HD SYNC	P3931-32A	P3931-32B	—	32
33	—	P3931-33A	P3931-33B	RELAY Ⓛ	33
34	—	P3931-34A	P3931-34B	RTSW	34
35	PB HSS	P3931-35A	P3931-35B	V METER	35
36	FSC	P3931-36A	P3931-36B	—	36
37	V HSW	P3931-37A	P3931-37B	EE Y	37
38	—	P3931-38A	P3931-38B	VD SYNC	38
39	—	P3931-39A	P3931-39B	GND	39
40	GND	P3931-40A	P3931-40B	RF C	40
41	RF Y	P3931-41A	P3931-41B	EE SW Ⓛ	41
42	GND	P3931-42A	P3931-42B	CPS Ⓗ	42
43	—	P3931-43A	P3931-43B	GND	43
44	GND	P3931-44A	P3931-44B	—	44
45	—	P3931-45A	P3931-45B	GND	45
46	NOTCH Ⓗ	P3931-46A	P3931-46B	—	46
47	GND	P3931-47A	P3931-47B	GND	47
48	-5V	P3931-48A	P3931-48B	-5V	48
49	A5V	P3931-49A	P3931-49B	A5V	49
50	12V	P3931-50A	P3931-50B	12V	50

P935 (TO INTERFACE)

NO	A			B	NO
1	34P+12V	P61001-1A	P61001-1B	A12V	1
2	A GND	P61001-2A	P61001-2B	A GND	2
3	-12V	P61001-3A	P61001-3B	-5V	3
4	D GND	P61001-4A	P61001-4B	D GND	4
5	D5.5V	P61001-5A	P61001-5B	D5.5V	5
6	—	P61001-6A	P61001-6B	FAN DET	6
7	FAM(+)	P61001-7A	P61001-7B	FAN(-)	7
8	M WIDE Ⓗ	P61001-8A	P61001-8B	CO WIDE Ⓛ	8
9	M NORMAL Ⓗ	P61001-9A	P61001-9B	SYS CLK	9
10	TL SW Ⓛ	P61001-10A	P61001-10B	SYS SYS	10
11	CTL PULSE	P61001-11A	P61001-11B	SYS IF	11
12	DWS MODE Ⓛ	P61001-12A	P61001-12B	FRS CLK	12
13	TC CLK	P61001-13A	P61001-13B	FRS FR	13
14	FWD Ⓛ	P61001-14A	P61001-14B	FRS IF	14
15	A5V	P61001-15A	P61001-15B	A5V	15
16	A GND	P61001-16A	P61001-16B	A GND	16
17	LTC EXT IN	P61001-17A	P61001-17B	PB FM Ⓛ	17
18	A GND	P61001-18A	P61001-18B	A GND	18
19	TCG/TCR ON Ⓛ	P61001-19A	P61001-19B	LTC OUT	19
20	REC HSS	P61001-20A	P61001-20B	LTC PB (X)	20
21	A GND	P61001-21A	P61001-21B	LTC PB (G)	21
22	VITC MUTE	P61001-22A	P61001-22B	VITC REC	22
23	A GND	P61001-23A	P61001-23B	A GND	23
24	AGC VIDEO	P61001-24A	P61001-24B	DEM Y	24
25	A GND	P61001-25A	P61001-25B	A GND	25
26	SYNC EXT Ⓛ	P61001-26A	P61001-26B	ENCODE SYNC	26
27	HIG DET Ⓛ	P61001-27A	P61001-27B	A GND	27
28	SYS RESET	P61001-28A	P61001-28B	SIG DET2 Ⓛ	28
29	HIG REC Ⓛ	P61001-29A	P61001-29B	DMS OK Ⓛ	29
30	S VHS SW Ⓛ	P61001-30A	P61001-30B	ROTARY SW	30
31	EDIT Ⓗ	P61001-31A	P61001-31B	SIG DET Ⓛ	31
32	NOTCH Ⓗ	P61001-32A	P61001-32B	YC DELAY 1	32
33	DOC SELECT 1	P61001-33A	P61001-33B	YC DELAY 2	33
34	DOC SELECT 2	P61001-34A	P61001-34B	YC DELAY 4	34
35	COMP1 M Ⓗ	P61001-35A	P61001-35B	YC DELAY 8	35
36	COMP0 M Ⓗ	P61001-36A	P61001-36B	—	36
37	ADV 1	P61001-37A	P61001-37B	—	37
38	ADV 2	P61001-38A	P61001-38B	—	38
39	ADV CONT	P61001-39A	P61001-39B	—	39
40	RSYNC	P61001-40A	P61001-40B	—	40
41	SDET Ⓗ	P61001-41A	P61001-41B	—	41
42	V BLANK ADR 1	P61001-42A	P61001-42B	—	42
43	V BLANK ADR 2	P61001-43A	P61001-43B	—	43
44	V BLANK ADR 4	P61001-44A	P61001-44B	V BLANK CLK	44
45	V BLANK ADR 8	P61001-45A	P61001-45B	V BLANK DATA	45
46	HSW BLANK ON Ⓛ	P61001-46A	P61001-46B	Y DNR LEVEL	46
47	SLOW COMP Ⓛ	P61001-47A	P61001-47B	Y DNR ON Ⓛ	47
48	C DNR LEVEL	P61001-48A	P61001-48B	FREEZE MODE 1	48
49	C DNR ON Ⓛ	P61001-49A	P61001-49B	FREEZE MODE 2	49
50	INC MODE 0	P61001-50A	P61001-50B	INC MODE 1	50

P932 (TO VIDEO YC)

NO	A			B	NO
1	VITC REC	P3632-1A	P3632-1B	A12V	1
2	GND	P3632-2A	P3632-2B	A5V	2
3	VITC MUTE	P3632-3A	P3632-3B	-5V	3
4	DL EE SW Ⓛ	P3632-4A	P3632-4B	A GND	4
5	CPS Ⓗ	P3632-5A	P3632-5B	GND	5
6	EE SW Ⓛ	P3632-6A	P3632-6B	RF Y	6
7	RF C	P3632-7A	P3632-7B	GND	7
8	GND	P3632-8A	P3632-8B	—	8
9	—	P3632-9A	P3632-9B	B/W Ⓛ	9
10	EE Y	P3632-10A	P3632-10B	V HSW	10
11	AGC LEVEL	P3632-11A	P3632-11B	FSC	11
12	V METER	P3632-12A	P3632-12B	—	12
13	RTSW	P3632-13A	P3632-13B	VV SYNC	13
14	S VIDEO Ⓛ	P3632-14A	P3632-14B	—	14
15	VV Y	P3632-15A	P3632-15B	V EE Ⓗ	15
16	GND	P3632-16A	P3632-16B	SYNC TIP P	16
17	MOD Y	P3632-17A	P3632-17B	GND	17
18	S VHS Ⓗ	P3632-18A	P3632-18B	REC C	18
19	4P C(X)	P3632-19A	P3632-19B	TRICK Ⓛ	19
20	GND	P3632-20A	P3632-20B	NC Y	20
21	LINE/Y(X)	P3632-21A	P3632-21B	EDIT Ⓗ	21
22	—	P3632-22A	P3632-22B	Y DOP Ⓛ	22
23	—	P3632-23A	P3632-23B	AGC VIDEO	23
24	REC FRM	P3632-24A	P3632-24B	PB FRM	24
25	REC HSS	P3632-25A	P3632-25B	—	25
26	REC PAL P	P3632-26A	P3632-26B	PB PALP	26
27	A COLOUR Ⓛ	P3632-27A	P3632-27B	—	27
28	COLOUR Ⓛ	P3632-28A	P3632-28B	LNC Y	28
29	C OUT (X)	P3632-29A	P3632-29B	GND	29
30	SIG DET Ⓛ	P3632-30A	P3632-30B	—	30
31	D5.5V	P3632-31A	P3632-31B	D5.5V	31
32	D GND	P3632-32A	P3632-32B	D GND	32

P941 (TO AUDIO 1)

NO	A			B	NO
1	AA12V	P40004-1A	P40004-1B	AA12V	1
2	-12V	P40004-2A	P40004-2B	-12V	2
3	AA GND	P40004-3A	P40004-3B	AA GND	3
4	—	P40004-4A	P40004-4B	D5.5V	4
5	—	P40004-5A	P40004-5B	D GND	5
6	FM DREC Ⓛ	P40004-6A	P40004-6B	AA GND	6
7	FM EE Ⓛ	P40004-7A	P40004-7B	CH1 LINE IN	7
8	FM MUT Ⓛ	P40004-8A	P40004-8B	AA GND	8
9	FM REC Ⓛ	P40004-9A	P40004-9B	CH1 FM IN	9
10	S CASS Ⓗ	P40004-10A	P40004-10B	NOR CH1 VR	10
11	TRICK Ⓛ	P40004-11A	P40004-11B	NOR CH1 REF	11
12	FM CH1 IN	P40004-12A	P40004-12B	NOR CH2 VR	12
13	AA GND	P40004-13A	P40004-13B	NOR CH2 REF	13
14	FM CH2 IN	P40004-14A	P40004-14B	CH2 MIC Ⓛ	14
15	LIN CH1 GND	P40004-15A	P40004-15B	CH1 MIC Ⓛ	15
16	LIN CH1 OUT	P40004-16A	P40004-16B	CH1 MIC	16
17	LIN CH2 GND	P40004-17A	P40004-17B	AA GND	17
18	LIN CH2 OUT	P40004-18A	P40004-18B	CH2 MIC	18
19	LTC MUT Ⓗ	P40004-19A	P40004-19B	AA GND	19
20	POWER MUT	P40004-20A	P40004-20B	AA GND	20
21	TC +6V	P40004-21A	P40004-21B	CH2 FM IN	21
22	TC -6V	P40004-22A	P40004-22B	AA GND	22
23	TC EE Ⓛ	P40004-23A	P40004-23B	CH2 LINE IN	23
24	TC MUT Ⓗ	P40004-24A	P40004-24B	—	24
25	TC PB	P40004-25A	P40004-25B	—	25
26	TC REC OUT	P40004-26A	P40004-26B	—	26
27	TC REC Ⓛ	P40004-27A	P40004-27B	A MASK	27
28	TC X2 Ⓛ	P40004-28A	P40004-28B	A CLK	28
29	—	P40004-29A	P40004-29B	A DATA	29
30	—	P40004-30A	P40004-30B	A LATCH	30
31	—	P40004-31A	P40004-31B	A ENABLE	31
32	—	P40004-32A	P40004-32B	—	32

P942 (TO AUDIO 2)

NO	A		
1	AA12V	P41003-1A	P41003-1B
2	-12V	P41003-2A	P41003-2B
3	AA GND	P41003-3A	P41003-3B
4	PB FM Ⓛ	P41003-4A	P41003-4B
5	VR GND	P41003-5A	P41003-5B
6	HIFI VR REF	P41003-6A	P41003-6B
7	HIFI CH1 VR	P41003-7A	P41003-7B
8	HIFI CH2 VR	P41003-8A	P41003-8B
9	FM OUT Ⓛ	P41003-9A	P41003-9B
10	CH2 METER	P41003-10A	P41003-10
11	METER GND	P41003-11A	P41003-11
12	CH1 METER	P41003-12A	P41003-12
13	MONITOR	P41003-13A	P41003-13
14	CH2 FM AMP OUT	P41003-14A	P41003-14
15	CH1 FM AMP OUT	P41003-15A	P41003-15
16	A GND	P41003-16A	P41003-16
17	CH2 LIN AMP OUT	P41003-17A	P41003-17
18	CH1 LIN AMP OUT	P41003-18A	P41003-18
19	CH1 Ⓛ	P41003-19A	P41003-19
20	CH2 Ⓛ	P41003-20A	P41003-20
21	CH1 PHONE	P41003-21A	P41003-21
22	PHONE GND	P41003-22A	P41003-22
23	CH2 PHONE	P41003-23A	P41003-23
24	FM MON Ⓛ	P41003-24A	P41003-24
25	TC OUT (X)	P41003-25A	P41003-25
26	A GND	P41003-26A	P41003-26
27	TC IN (X)	P41003-27A	P41003-27
28	LTC EXT IN	P41003-28A	P41003-28
29	TCG/TCR ON Ⓛ	P41003-29A	P41003-29
30	LTC OUT	P41003-30A	P41003-30
31	LTC PB (X)	P41003-31A	P41003-31
32	LTC PB (G)	P41003-32A	P41003-32

P961 (TO FRONT)

TRAC VR(+)	1	P62001-1
TRAC VR(-)	2	P62001-2
AGC LEVEL	3	P62001-3
S VIDEO Ⓛ	4	P62001-4
CPN Ⓛ	5	P62001-5
TMR CLK	6	P62001-6
—	7	P62001-7
S VHS Ⓗ	8	P62001-8
T METER	9	P62001-9
—	10	P62001-10

P962 (TO FRONT)

CH2 METER	1	P62002-1
METER GND	2	P62002-2
CH1 METER	3	P62002-3
VR GND	4	P62002-4
NOR CH1 VR	5	P62002-5
NOR CH1 REF	6	P62002-6
NOR CH2 VR	7	P62002-7
NOR CH2 REF	8	P62002-8
VR GND	9	P62002-9
HIFI VR REF	10	P62002-10

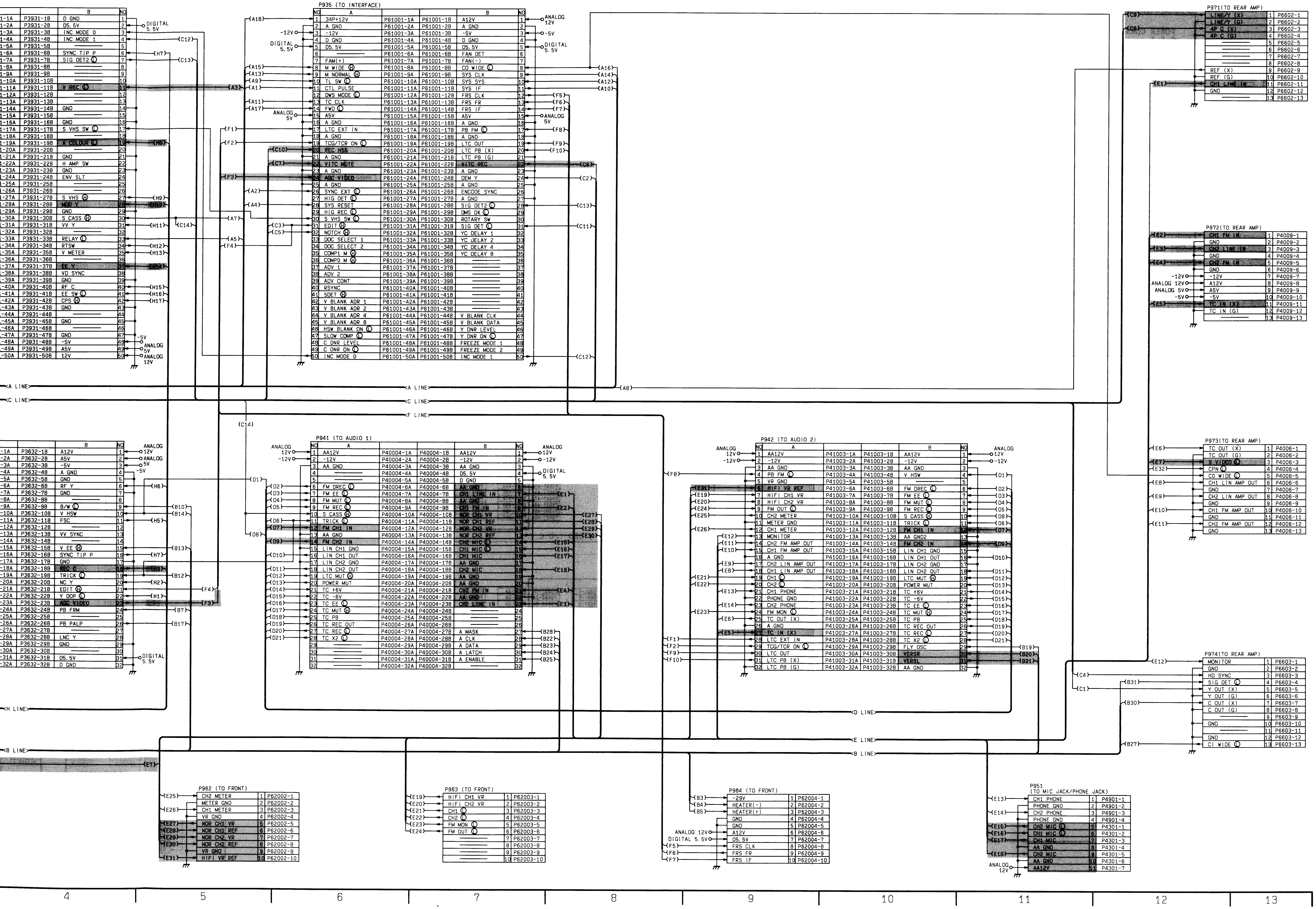
P963 (TO FRONT)

HiFi CH1 VR	1	P62003-1
HiFi CH2 VR	2	P62003-2
CH1 Ⓛ	3	P62003-3
CH2 Ⓛ	4	P62003-4
FM MON Ⓛ	5	P62003-5
FM OUT Ⓛ	6	P62003-6
—	7	P62003-7
—	8	P62003-8
—	9	P62003-9
—	10	P62003-10

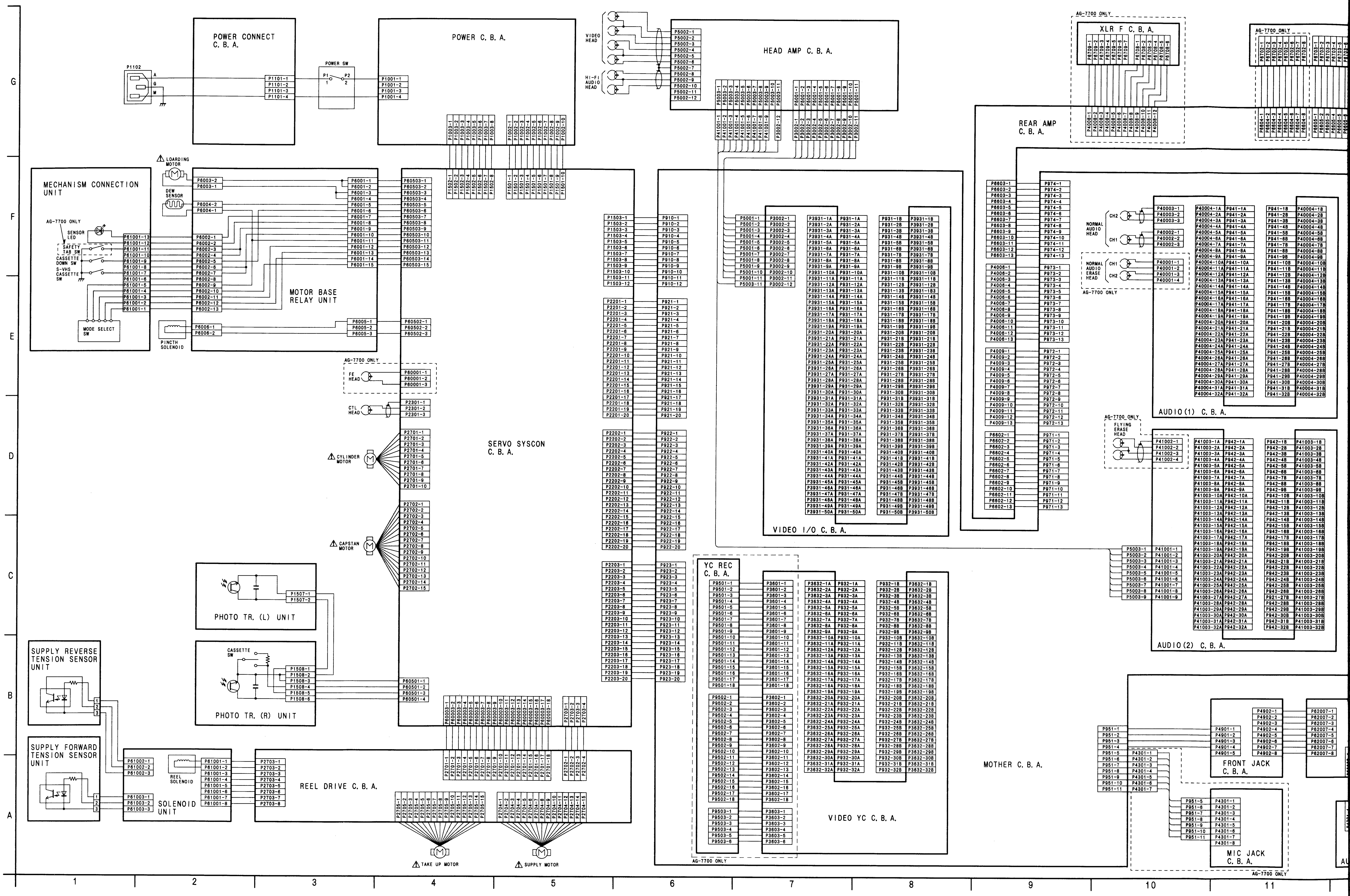
P964 (TO FRONT)

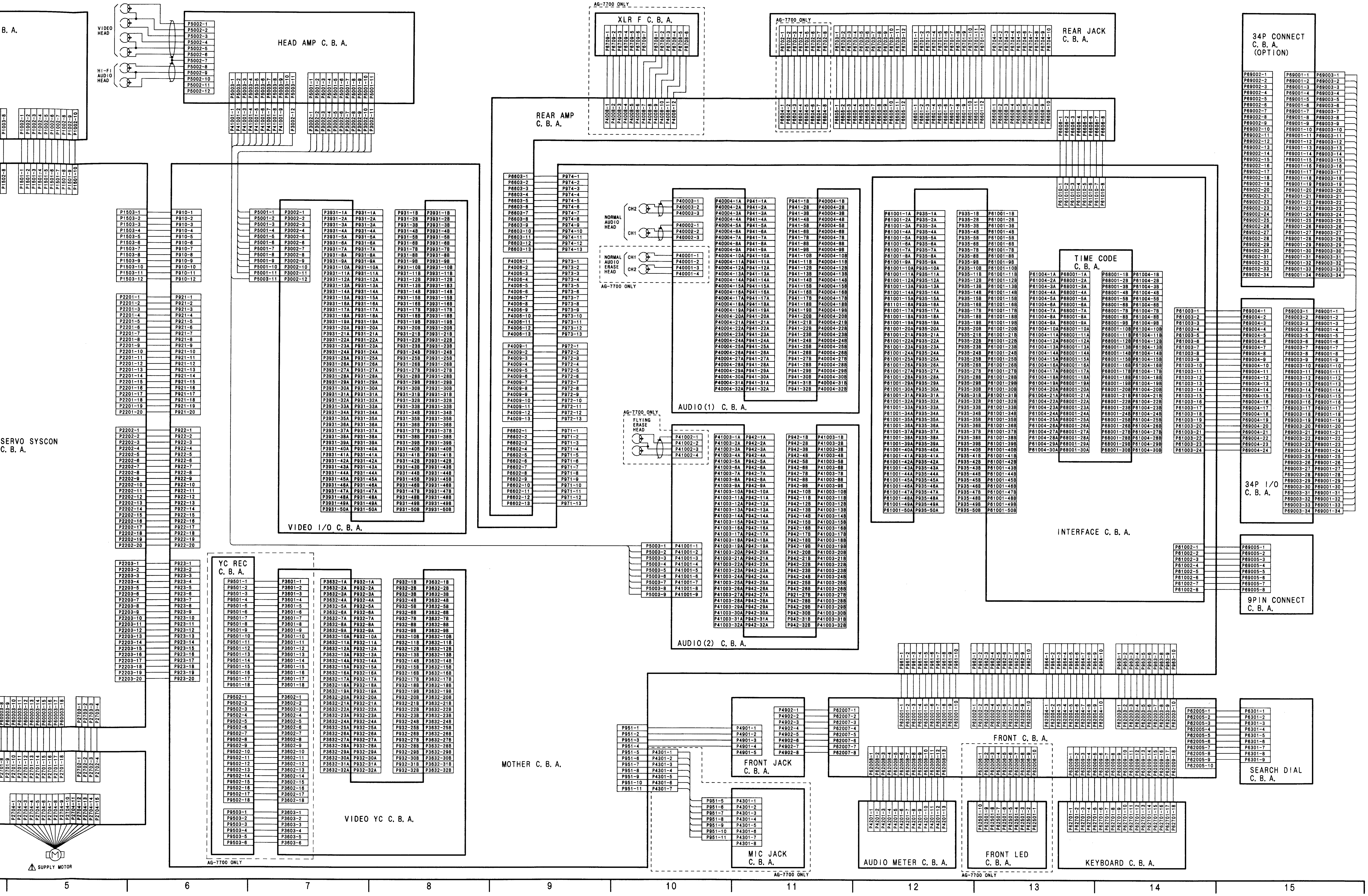
-29V	1	P62004-1
HEATER(-)	2	P62004-2
HEATER(+)	3	P62004-3
GND	4	P62004-4
GND	5	P62004-5
A12V	6	P62004-6
D5.5V	7	P62004-7
FRS CLK	8	P62004-8
FRS FR	9	P62004-9
FRS IF	10	P62004-10

BA-4) AG-7700 only have components and/or wires identified by shade ▨ mark on this schematic diagram.


P935 (TO INTERFACE)
P941 (TO AUDIO 1)
P942 (TO AUDIO 2)
P971(TO REAR AMP)
P972(TO REAR AMP)
P973(TO REAR AMP)
P974(TO REAR AMP)
P962 (TO FRONT)
P963 (TO FRONT)
P984 (TO FRONT)
P951 (TO MIC JACK/PHONE JACK)
A LINE
B LINE
C LINE
D LINE
E LINE
F LINE
H LINE
ANALOG 12V
ANALOG 5V
DIGITAL 5.5V
-12V
-5V
4
5
6
7
8
9
10
11
12
13

INTERCONNECTION SCHEMATIC DIAGRAM


POWER CONNECT C. B. A.
POWER C. B. A.
POWER SW
P1102
HEAD AMP C. B. A.
VIDEO HEAD
HI-FI AUDIO HEAD
XLR F C. B. A.
AG-7700 ONLY
REAR AMP C. B. A.
MECHANISM CONNECTION UNIT
LOARDING MOTOR
DEW SENSOR
SENSOR LED
SAFETY TAB SW
CASSETTE DOWN SW
S-VHS CASSETTE SW
MODE SELECT SW
PINCTH SOLENOID
MOTOR BASE RELAY UNIT
FE HEAD
CTL HEAD
CYLINDER MOTOR
CAPSTAN MOTOR
SERVO SYSCON C. B. A.
VIDEO I/O C. B. A.
NORMAL AUDIO HEAD
NORMAL AUDIO ERASE HEAD
CH1
CH2
AUDIO(1) C. B. A.
FLYING ERASE HEAD
AUDIO(2) C. B. A.
PHOTO TR. (L) UNIT
CASSETTE SW
PHOTO TR. (R) UNIT
SUPPLY REVERSE TENSION SENSOR UNIT
SUPPLY FORWARD TENSION SENSOR UNIT
SOLENOID UNIT
REEL SOLENOID
REEL DRIVE C. B. A.
TAKE UP MOTOR
SUPPLY MOTOR
YC REC C. B. A.
VIDEO YC C. B. A.
MOTHER C. B. A.
FRONT JACK C. B. A.
MIC JACK C. B. A.
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10
11


B. A.
VIDEO HEAD
HI-FI AUDIO HEAD
HEAD AMP C. B. A.
AG-7700 ONLY
XLR F C. B. A.
REAR JACK C. B. A.
REAR AMP C. B. A.
34P CONNECT C. B. A. (OPTION)
NORMAL AUDIO HEAD
CH2
CH1
NORMAL AUDIO ERASE HEAD
AUDIO(1) C. B. A.
TIME CODE C. B. A.
FLYING ERASE HEAD
SERVO SYSCON C. B. A.
VIDEO I/O C. B. A.
INTERFACE C. B. A.
34P I/O C. B. A.
AUDIO(2) C. B. A.
YC REC C. B. A.
9PIN CONNECT C. B. A.
MOTHER C. B. A.
FRONT JACK C. B. A.
FRONT C. B. A.
SEARCH DIAL C. B. A.
VIDEO YC C. B. A.
MIC JACK C. B. A.
AUDIO METER C. B. A.
FRONT LED C. B. A.
KEYBOARD C. B. A.
SUPPLY MOTOR
5
6
7
8
9
10
11
12
13
14
15

SECTION 7

CIRCUIT BOARDS

CONTENTS

POWER C.B.A. CBA-3
MOTHER C.B.A., FRONT JACK C.B.A. AND MIC JACK C.B.A. CBA-4
SERVO & SYSTEM CONTROL C.B.A. CBA-5
YC REC C.B.A. CBA-6
VIDEO YC C.B.A. CBA-7
VIDEO I/O C.B.A. CBA-8
AUDIO (1) C.B.A. CBA-9
AUDIO (2) C.B.A. CBA-10
INTERFACE C.B.A., TIME CODE C.B.A. AND 9 PIN CONNECT C.B.A. CBA-11
FRONT C.B.A. AND FRONT LED C.B.A. CBA-12
KEYBOARD C.B.A. CBA-13
HEAD AMP C.B.A. CBA-13
REAR AMP C.B.A. CBA-14
REEL DRIVE C.B.A. CBA-15
REAR JACK C.B.A. CBA-16
XLR M C.B.A. AND XLR F C.B.A. CBA-16

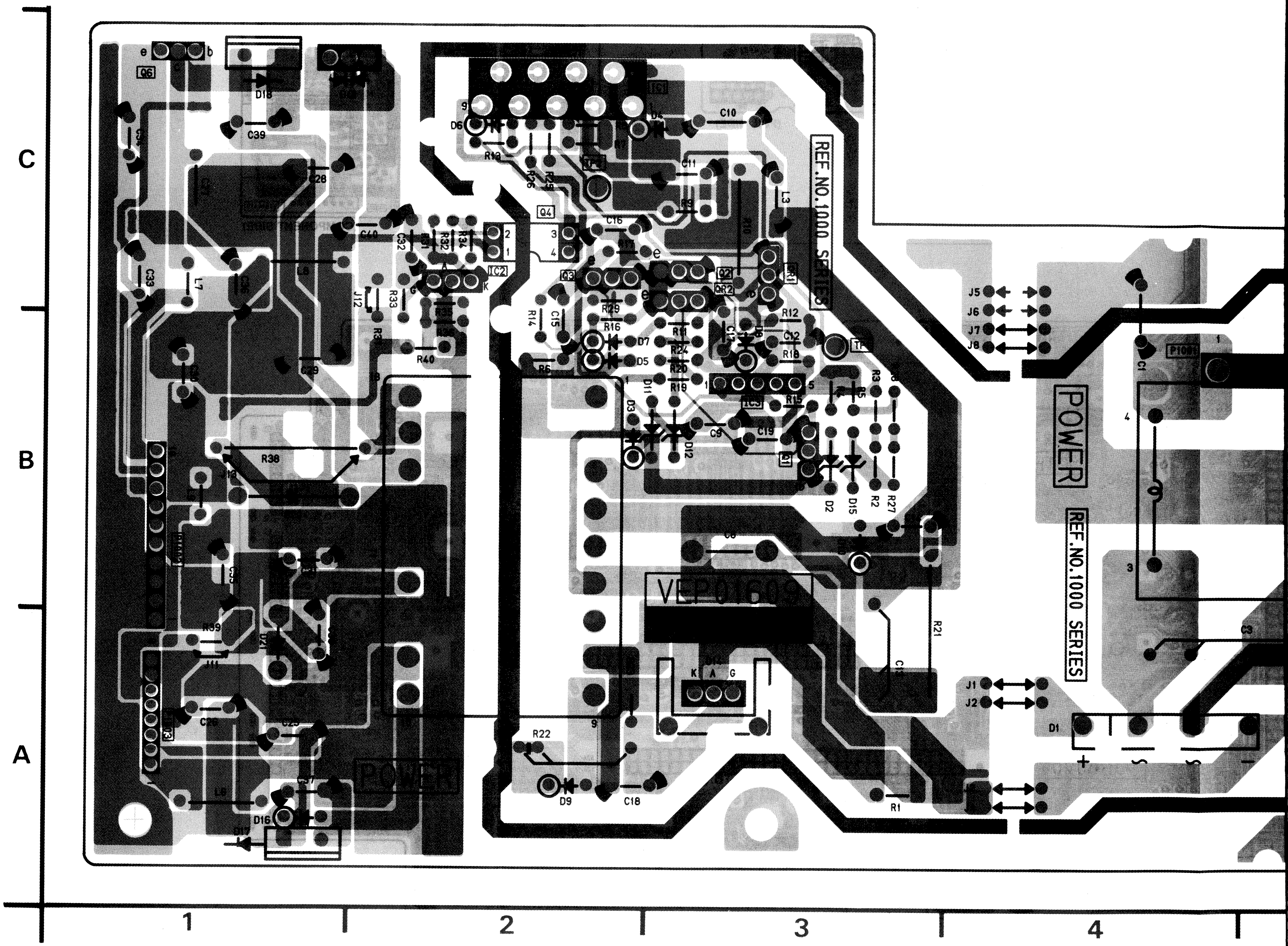
IMPORTANT SAFETY NOTICE

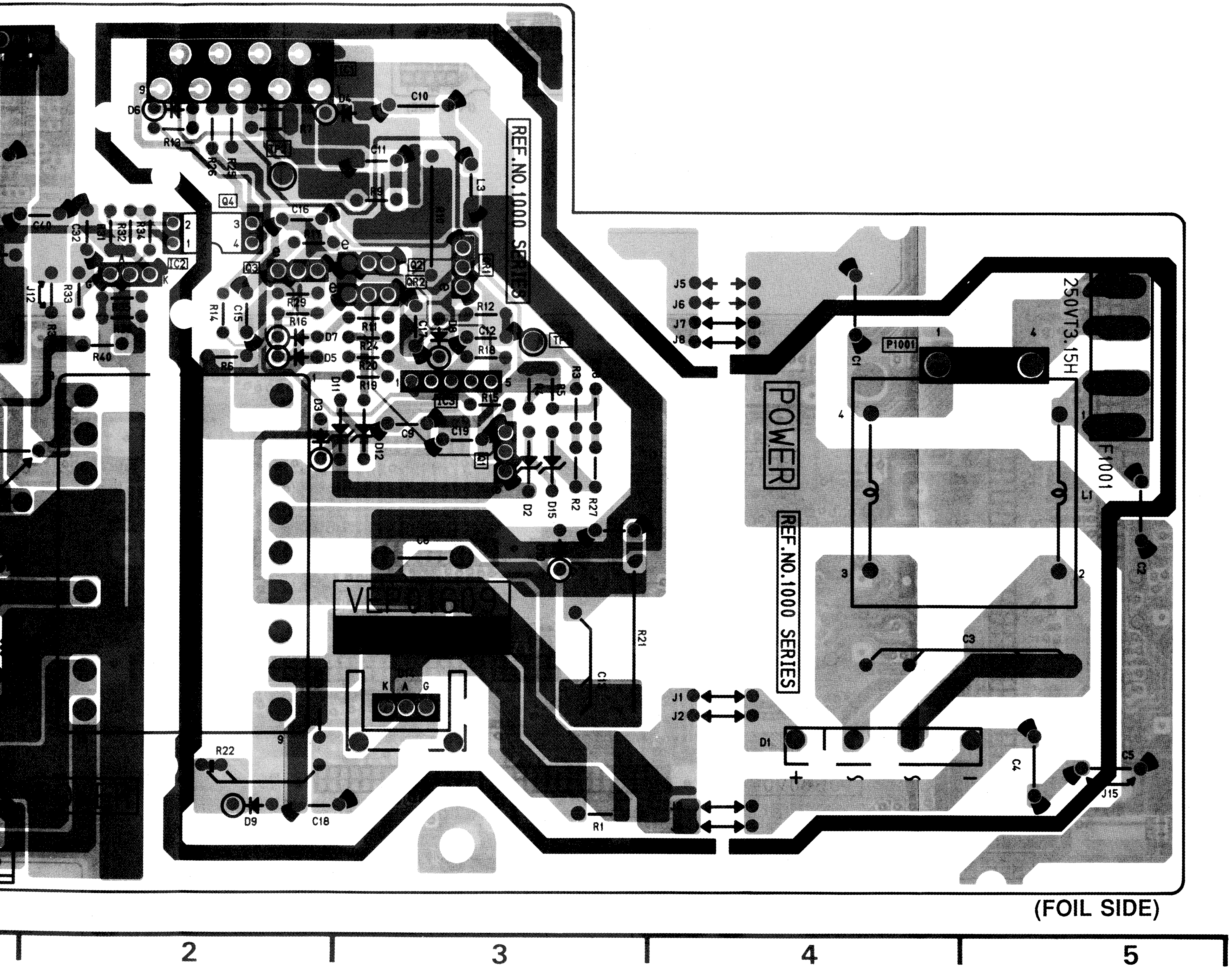
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE

DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST. AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

POWER C.B.A. (E1)


C
B
A
1
2
3
4
Q6
D18
C39
C28
C40
C32
R32
R34
IC2
C33
L7
L8
J12
R33
R40
C29
R38
R39
D21
J11
C26
C25
C37
L6
D16
D17
POWER
D6
R13
R26
TP1
Q4
C16
R17
Q3
R29
R16
D7
D5
R14
C15
R6
D11
D3
D12
C10
C11
R9
R10
L3
Q2
QR2
R11
R24
R20
R19
IC3
C17
D8
C12
R18
R12
TP2
R15
R5
R3
C9
C19
Q1
D2
D15
R2
R27
C6
VEP01609
R21
C13
D10
K
A
G
R22
D9
C18
R1
REF.NO.1000 SERIES
J5
J6
J7
J8
J1
J2
P1001
C1
C3
D1
+
−

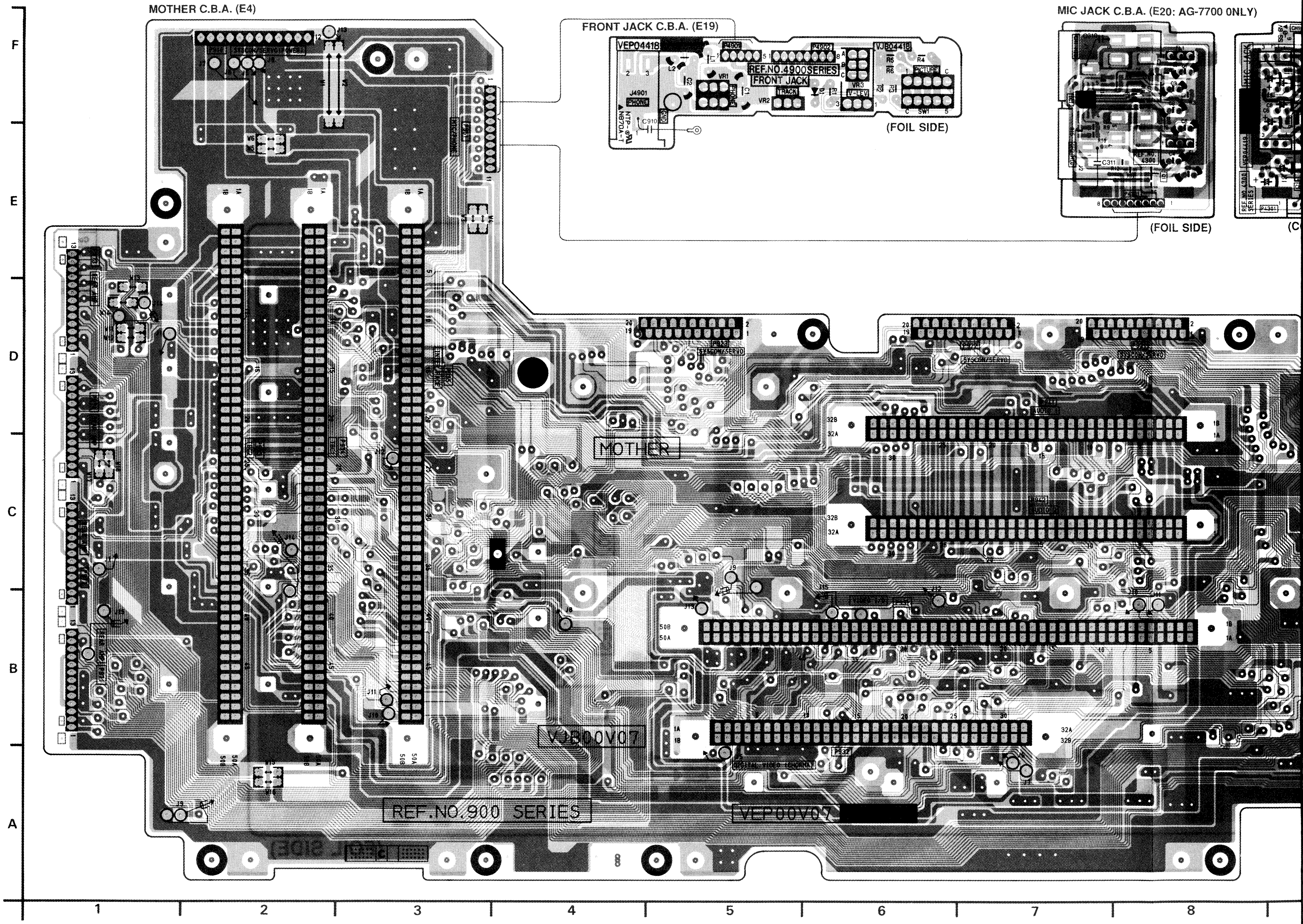

REF.NO.1000 SERIES
POWER
REF.NO.1000 SERIES
250VT3.15H
F1001
P1001
1
4
VEP01609
IC1
IC2
IC3
Q1
Q2
Q3
Q4
QR1
QR2
TP1
D1
D2
D3
D4
D5
D6
D7
D9
D11
D12
D15
C1
C2
C3
C4
C5
C9
C10
C11
C12
C15
C16
C18
C19
C32
C40
R1
R2
R3
R5
R7
R9
R10
R11
R12
R13
R14
R15
R16
R18
R19
R20
R21
R22
R24
R25
R26
R27
R29
R31
R32
R33
R34
R40
L1
L3
J1
J2
J5
J6
J7
J8
J12
J15
K A G
+
~
~
−
2
3
4
5

(FOIL SIDE)

POWER C.B.A.	
Transistor	
Q1001	B-3
Q1002	C-3
Q1003	C-2
Q1004	C-2
Q1006	C-1
Transistor & Resistor	
QR1001	C-3
QR1002	B-3
Integrated Circuit	
IC1001	C-2
IC1002	C-2
IC1003	B-3
Test Point	
TP1001	B-3
TP1002	C-2
Connector	
P1001	B-4
P1002	B-1
P1003	A-1

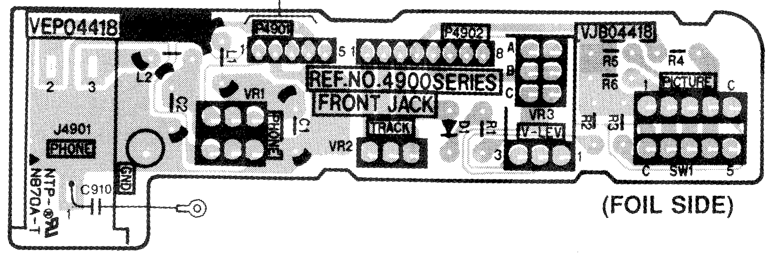
ADDRESS INFORMATION

MOTHER C.B.A. (E4), FRONT JACK C.B.A. (E19) AND MIC JACK C.B.A. (E20: AG-7700 0NLY)


MOTHER C.B.A. (E4)
FRONT JACK C.B.A. (E19)
MIC JACK C.B.A. (E20: AG-7700 0NLY)
VEP04418
VJB04418
REF.NO.4900 SERIES
FRONT JACK
J4901
PHONE
VR1
VR2
VR3
TRACK
V-LEV
PICTURE
SW1
C910
(FOIL SIDE)
C311
REF.NO. 4300
P4301
(FOIL SIDE)
MOTHER
SYSCON/SERVO
VJB00V07
REF.NO.900 SERIES
VEP00V07
DIGITAL VIDEO
J9
J11
J10
J15
J7
J8
32B
32A
50B
50A
1B
1A
F
E
D
C
B
A
1
2
3
4
5
6
7
8

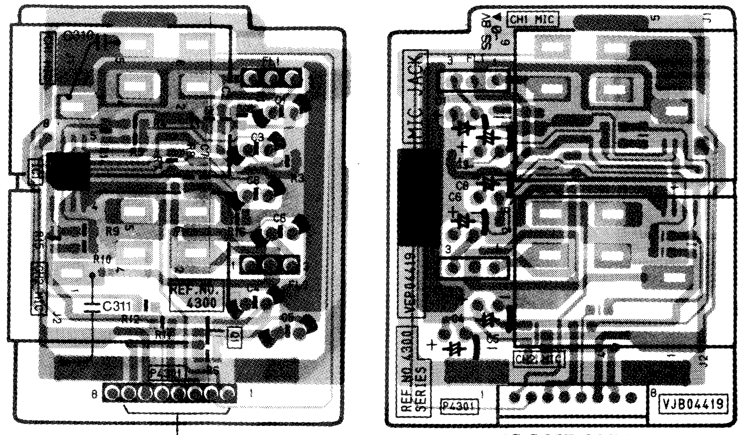
(E19) AND MIC JACK C.B.A. (E20: AG-7700 0NLY)

FRONT JACK C.B.A. (E19)

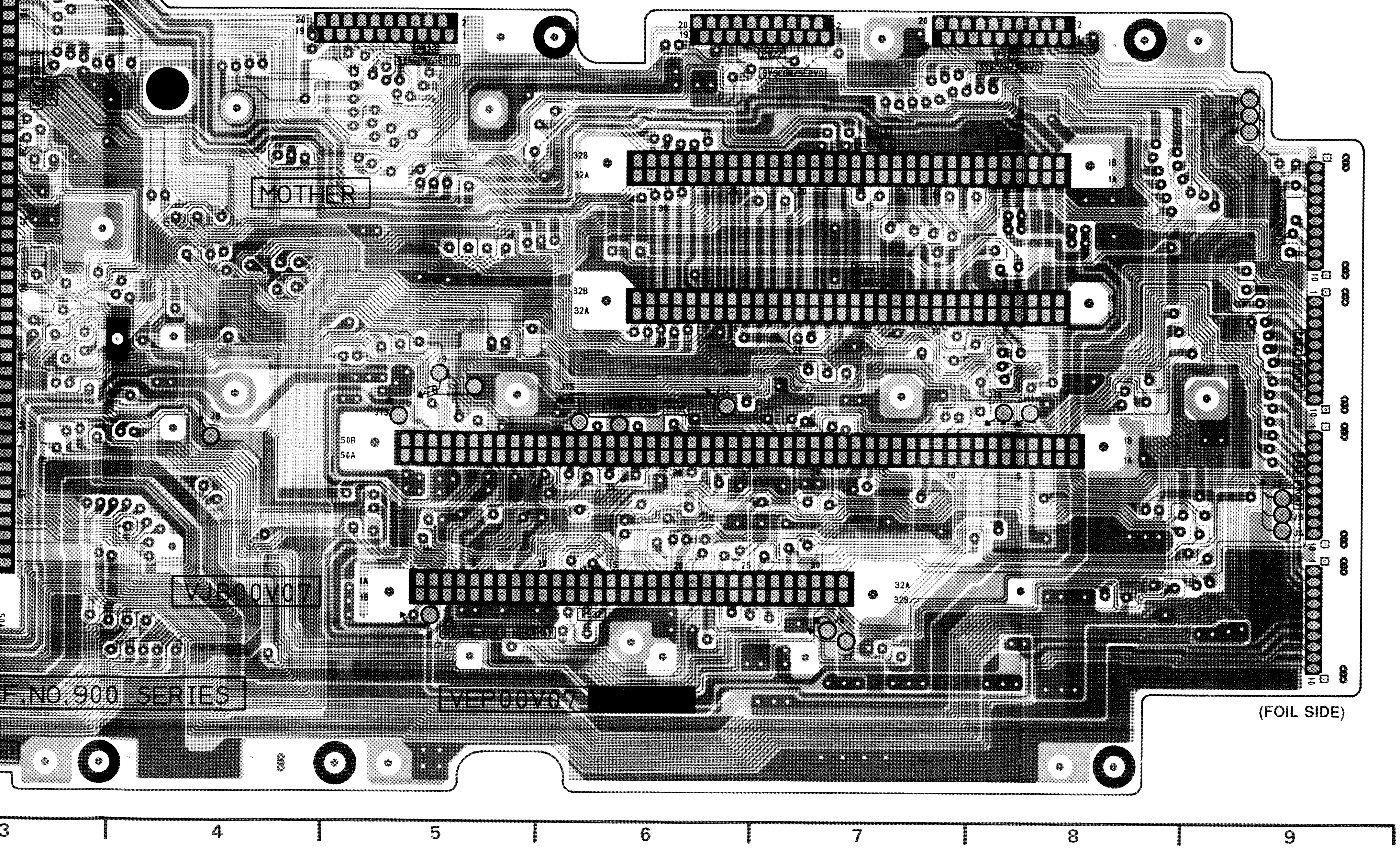

VEP04418
P4901
P4902
VJB04418
REF.NO.4900SERIES
FRONT JACK
TRACK
VR1
VR2
VR3
V-LEV
PICTURE
SW1
J4901
PHONE
C910
GND

(FOIL SIDE)

MIC JACK C.B.A. (E20: AG-7700 0NLY)


REF.NO. 4300
C311
MIC JACK
CH1 MIC
CH2 MIC
REF.NO.4300 SERIES
P4301
VJB04419

(FOIL SIDE) (COMPONENT SIDE)


MOTHER
SYSCON/SERVO
VJB00V07
VEP00V07
F.NO.900 SERIES
3
4
5
6
7
8
9

(FOIL SIDE)

MOTHER C.B.A.	
Connector	
P910	F-2
P921	D-8
P922	D-7
P923	D-5
P931	B-6
P932	B-6
P933	C-2
P934	C-2
P935	D-3
P941	D-7
P942	C-7
P951	E-3
P961	C-9
P962	C-9
P963	B-9
P964	A-9
P971	B-1
P972	C-1
P973	E-1
P974	D-1

ADDRESS INFORMATION

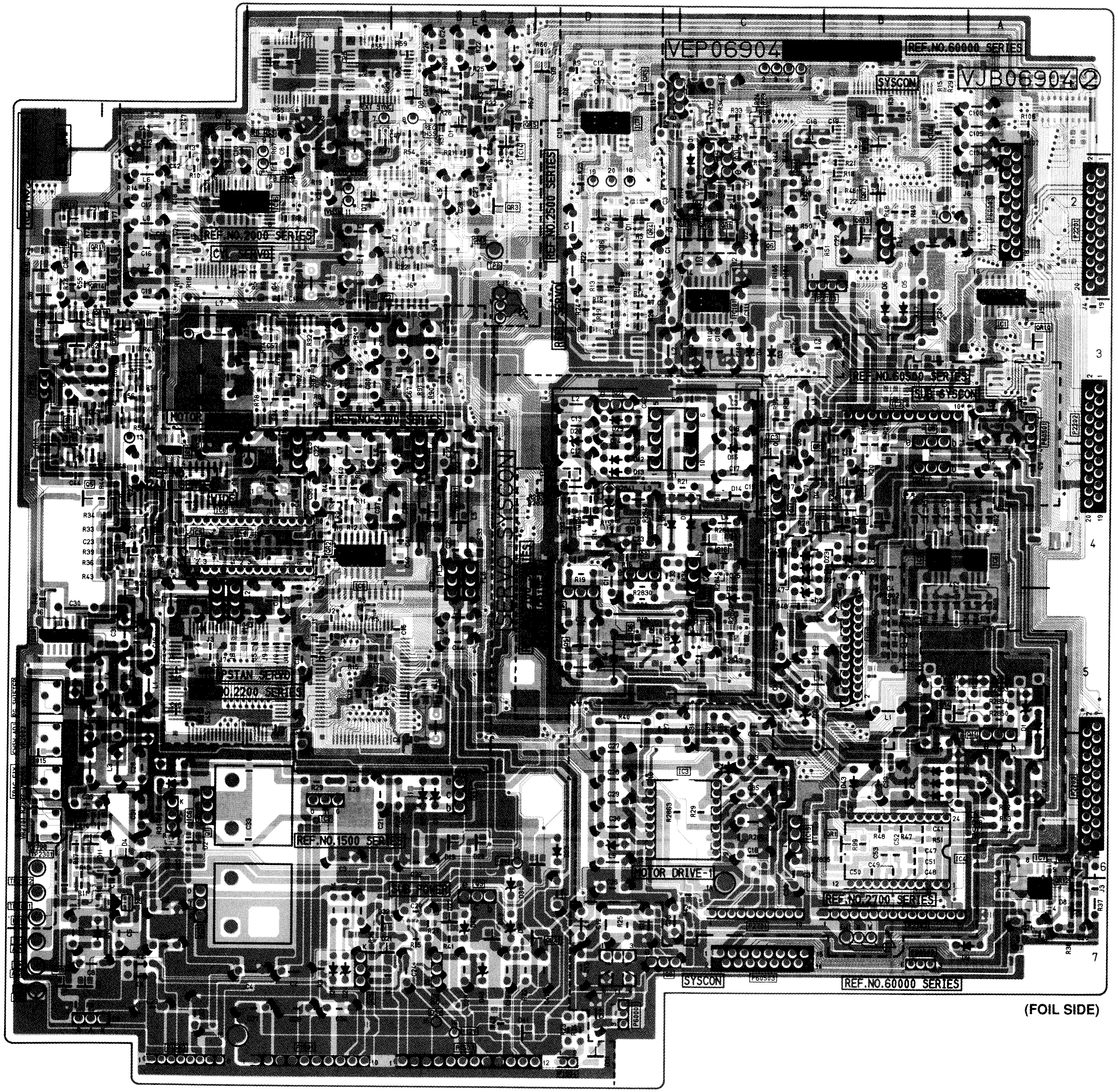
FRONT JACK C.B.A.	
Adjustment	
VR4901	F-5
VR4902	F-5
VR4903	F-6
Connector	
P4901	F-5
P4902	F-6

ADDRESS INFORMATION

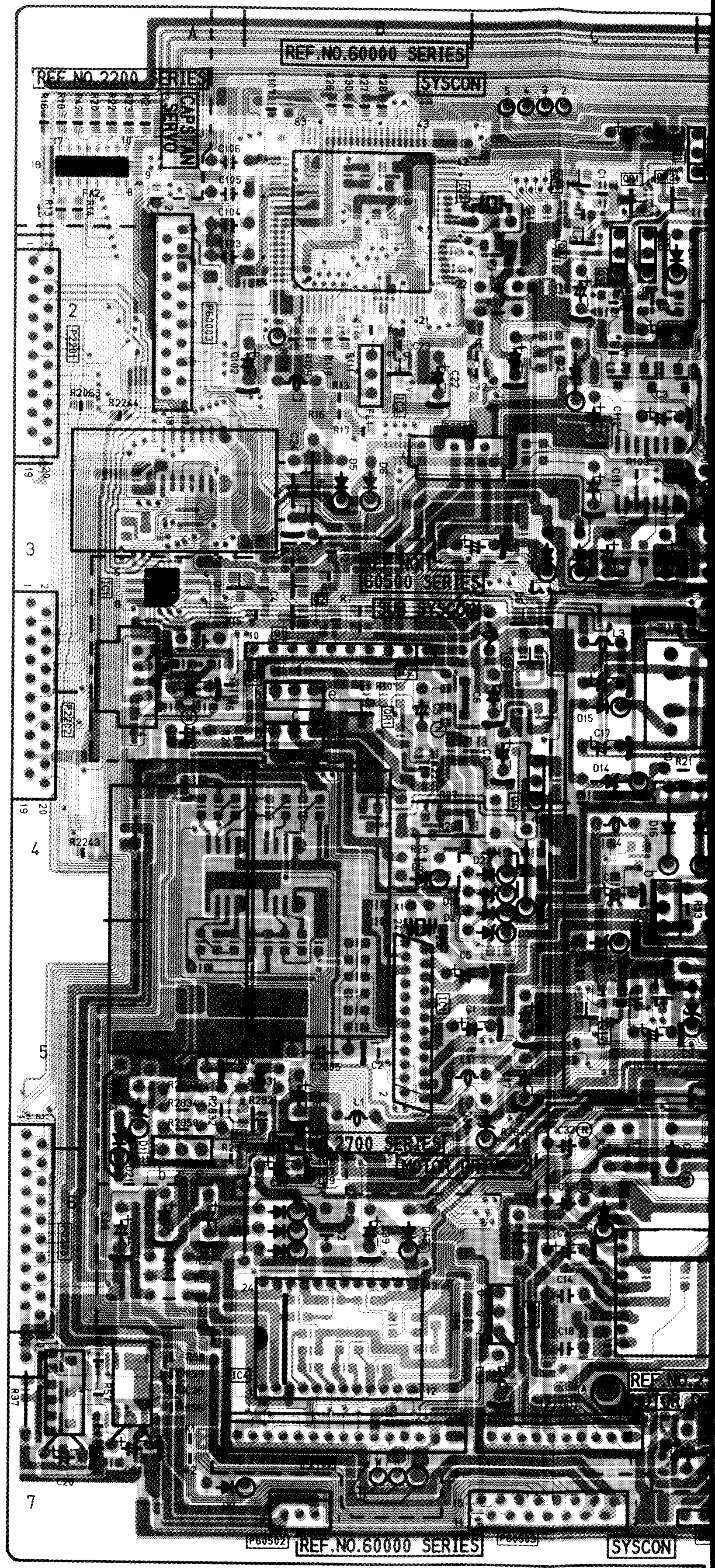
MIC JACK C.B.A.	
Transistor	
Q4301	E-8
Integrated Circuit	
IC4301	F-7
Connector	
P4301	E-8
P4301	E-9

ADDRESS INFORMATION

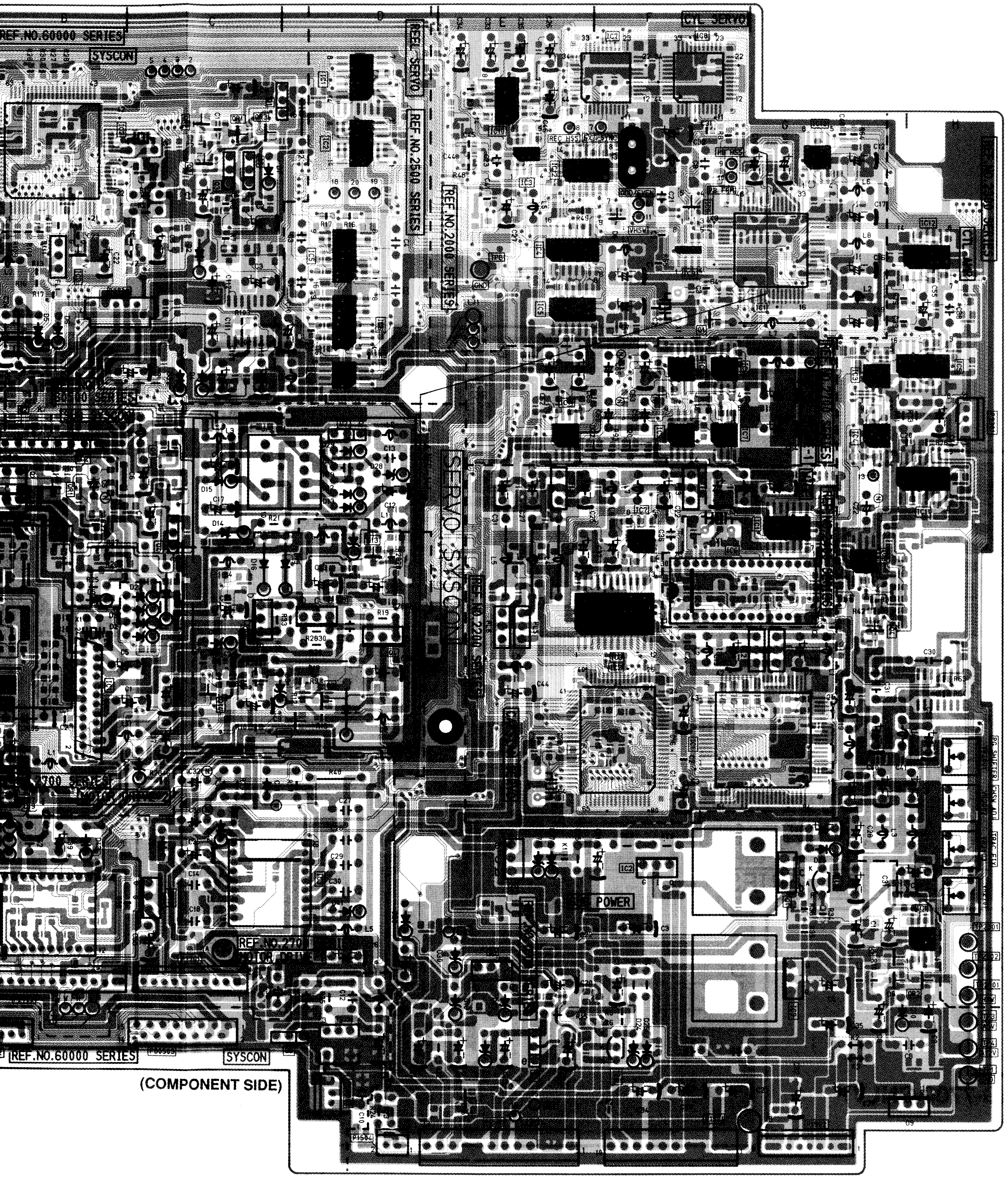
SERVO & SYSTEM CONTROL C.B.A. (E3)


VEP06904 [redacted]
REF.NO.60000 SERIES
VJB06904②
SYSCON
REF.NO.2000 SERIES
CYL SERVO
REF.NO.2500 SERIES
REF.NO.2100 SERIES
MOTOR
REF.NO.60500 SERIES
SUB SYSCON
SYSCON
CAPSTAN SERVO
REF.NO.2200 SERIES
REF.NO.1500 SERIES
MOTOR DRIVE-1
REF.NO.2700 SERIES
REF.NO.60000 SERIES
SYSCON

(FOIL SIDE)


REF.NO.2200 SERIES
REF.NO.60000 SERIES
SYSCON
CAPSTAN SERVO
60500 SERIES
SUB SYSCON
2700 SERIES
REF.NO.60000 SERIES
SYSCON

(COMPONENT SIDE)



(COMPONENT SIDE)

SERVO & SYSTEM CONTROL C.B.A.

Transistor

Q1501	G-6	Ⓒ
Q1501	G-6	Ⓕ
Q1502	D-3	Ⓒ
Q1502	D-3	Ⓕ
Q1503	E-7	Ⓒ
Q1503	E-7	Ⓕ
Q1504	E-6	Ⓒ
Q1504	E-6	Ⓕ
Q1505	E-7	Ⓒ
Q1505	E-7	Ⓕ
Q2001	F-3	Ⓒ
Q2302	H-2	Ⓕ
Q2303	G-4	Ⓕ
Q2304	G-4	Ⓒ
Q2305	H-4	Ⓕ
Q2703	D-5	Ⓒ
Q2704	D-5	Ⓒ
Q2704	D-5	Ⓕ
Q2705	D-5	Ⓕ
Q2706	D-5	Ⓕ
Q2707	B-5	Ⓒ
Q2709	D-4	Ⓒ
Q2709	D-4	Ⓕ
Q2710	C-4	Ⓒ
Q2710	C-4	Ⓕ
Q2711	A-6	Ⓒ
Q2711	A-6	Ⓕ
Q2713	D-4	Ⓒ
Q2714	C-5	Ⓒ
Q2715	D-4	Ⓕ
Q2716	C-4	Ⓕ
Q60001	C-1	Ⓒ
Q60001	C-1	Ⓕ
Q60002	C-2	Ⓒ
Q60003	C-2	Ⓒ
Q60003	C-2	Ⓕ
Q60004	C-2	Ⓕ
Q60005	C-2	Ⓒ
Q60005	C-2	Ⓕ
Q60006	C-2	Ⓕ
Q60007	B-1	Ⓕ
Q60008	D-7	Ⓕ
Q60501	B-3	Ⓒ
Q60502	B-3	Ⓒ
Q60503	B-3	Ⓕ
Q60504	C-4	Ⓒ
Q60504	C-4	Ⓕ
Q60505	B-4	Ⓕ
Q60506	B-3	Ⓒ
Q60506	B-3	Ⓕ
Q60507	B-4	Ⓕ
Q60508	B-4	Ⓒ
Q60508	B-4	Ⓕ
Q60509	C-3	Ⓒ

Transistor & Resistor

QR1501	G-7	Ⓒ
QR1502	H-7	Ⓒ
QR1503	H-7	Ⓕ
QR1541	D-7	Ⓕ
QR2003	E-2	Ⓕ
QR2005	E-1	Ⓕ
QR2304	G-3	Ⓕ
QR2305	G-3	Ⓕ
QR2306	H-3	Ⓕ
QR2308	H-3	Ⓕ
QR2309	H-2	Ⓕ
QR2310	G-3	Ⓕ
QR2311	G-2	Ⓕ
QR2312	H-2	Ⓕ
QR2313	H-4	Ⓕ
QR2314	G-2	Ⓕ
QR2401	E-4	Ⓕ
QR2402	F-4	Ⓕ
QR2501	C-2	Ⓕ
QR2502	C-2	Ⓕ
QR2503	C-2	Ⓕ
QR2504	D-2	Ⓕ
QR2505	D-1	Ⓕ
QR2701	B-6	Ⓕ
QR2702	D-5	Ⓒ
QR2703	C-5	Ⓕ
QR2704	B-5	Ⓕ
QR60001	C-1	Ⓒ
QR60002	C-1	Ⓒ
QR60003	C-1	Ⓒ
QR60004	C-2	Ⓕ
QR60006	A-6	Ⓕ
QR60007	B-2	Ⓕ
QR60008	B-1	Ⓕ
QR60010	A-3	Ⓕ
QR60012	A-6	Ⓕ
QR60013	B-2	Ⓕ
QR60501	B-4	Ⓒ
QR60502	B-4	Ⓕ
QR60503	B-4	Ⓕ

Integrated Circuit

IC1501	H-6	Ⓒ
IC1502	F-6	Ⓒ
IC1502	F-6	Ⓕ
IC1503	G-7	Ⓒ
IC1503	G-7	Ⓕ
IC1505	F-7	Ⓒ
IC1505	F-7	Ⓕ
IC1506	G-6	Ⓒ
IC1506	G-6	Ⓕ
IC2001	G-2	Ⓒ
IC2002	F-3	Ⓕ
IC2003	E-1	Ⓒ
IC2005	E-2	Ⓒ
IC2006	F-2	Ⓒ
IC2007	F-1	Ⓒ
IC2008	F-1	Ⓒ
IC2009	F-2	Ⓒ
IC2010	E-1	Ⓒ
IC2012	E-2	Ⓒ
IC2013	G-1	Ⓒ
IC2014	E-1	Ⓕ
IC2016	F-2	Ⓕ
IC2201	F-5	Ⓒ
IC2202	F-4	Ⓒ
IC2203	F-4	Ⓒ
IC2206	F-4	Ⓕ
IC2207	F-4	Ⓒ
IC2302	G-4	Ⓒ
IC2303	G-3	Ⓒ
IC2304	G-3	Ⓒ
IC2305	H-3	Ⓒ
IC2310	H-5	Ⓕ
IC2311	H-4	Ⓒ
IC2312	H-2	Ⓒ
IC2401	G-4	Ⓒ
IC2402	G-4	Ⓕ
IC2403	F-4	Ⓕ
IC2404	G-4	Ⓕ
IC2405	G-4	Ⓕ
IC2406	F-4	Ⓒ
IC2406	G-4	Ⓕ
IC2501	D-1	Ⓒ
IC2502	D-1	Ⓒ
IC2503	D-3	Ⓒ
IC2505	D-2	Ⓒ
IC2506	D-3	Ⓒ
IC2507	D-1	Ⓕ
IC2701	B-5	Ⓒ
IC2701	B-5	Ⓕ
IC2703	D-6	Ⓒ
IC2703	C-6	Ⓕ
IC2704	B-6	Ⓒ
IC2704	B-6	Ⓕ
IC2705	B-4	Ⓕ
IC2706	A-4	Ⓕ
IC2707	F-3	Ⓒ
IC2708	F-3	Ⓒ
IC2709	F-3	Ⓒ
IC2710	F-3	Ⓒ
IC2711	E-3	Ⓒ
IC2715	C-6	Ⓒ
IC2715	C-6	Ⓕ
IC60001	A-3	Ⓕ
IC60002	B-1	Ⓒ
IC60003	B-2	Ⓒ
IC60007	A-7	Ⓕ
IC60101	C-3	Ⓕ
IC60501	A-3	Ⓒ
IC60502	B-3	Ⓒ
IC60502	B-3	Ⓕ
IC60503	C-4	Ⓕ

Test Point

TP1501	H-7	Ⓒ
TP1501	H-7	Ⓕ
TP1503	H-7	Ⓒ
TP1503	H-7	Ⓕ
TP1504	H-7	Ⓒ
TP1504	H-7	Ⓕ
TP2001	H-7	Ⓒ
TP2001	H-7	Ⓕ
TP2008	E-2	Ⓒ
TP2008	E-2	Ⓕ
TP2301	H-6	Ⓒ
TP2301	H-6	Ⓕ
TP2502	H-7	Ⓒ
TP2502	H-7	Ⓕ

Adjustment

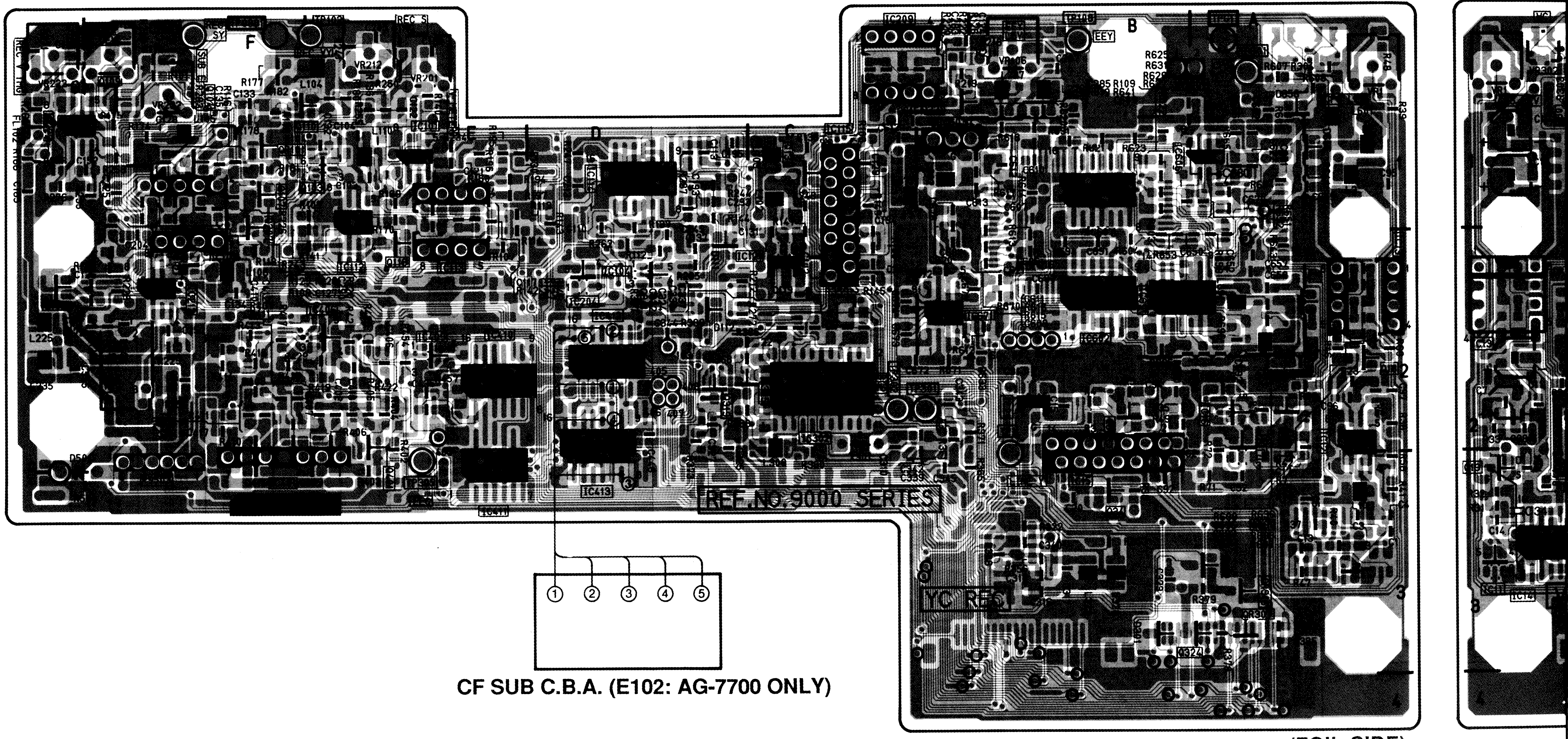
VR2001	H-5	Ⓒ
VR2001	H-5	Ⓕ
VR2002	H-6	Ⓒ
VR2002	H-6	Ⓕ
VR2003	H-6	Ⓒ
VR2003	H-6	Ⓕ
VR2701	H-6	Ⓒ
VR2701	H-6	Ⓕ

Connector

P1501	F-7	Ⓒ
P1501	F-7	Ⓕ
P1502	G-7	Ⓒ
P1502	G-7	Ⓕ
P1503	E-7	Ⓒ
P1503	E-7	Ⓕ
P1504	D-7	Ⓒ
P1504	D-7	Ⓕ
P2201	A-2	Ⓒ
P2201	A-2	Ⓕ
P2202	A-4	Ⓒ
P2202	A-3	Ⓕ
P2203	A-6	Ⓒ
P2203	A-6	Ⓕ
P2301	H-3	Ⓒ
P2301	H-3	Ⓕ
P2701	C-7	Ⓒ
P2701	C-7	Ⓕ
P2702	B-7	Ⓒ
P2702	B-7	Ⓕ
P2703	B-2	Ⓒ
P2703	B-2	Ⓕ
P60001	D-7	Ⓒ
P60001	D-7	Ⓕ
P60003	A-2	Ⓒ
P60003	A-2	Ⓕ
P60501	A-3	Ⓒ
P60501	A-3	Ⓕ
P60502	B-7	Ⓒ
P60502	B-7	Ⓕ
P60503	C-7	Ⓒ
P60503	C-7	Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

YC REC C.B.A. (E13: AG-7700 ONLY)


F
B
A
REF.NO.9000 SERIES
YC REC
①
②
③
④
⑤

CF SUB C.B.A. (E102: AG-7700 ONLY)

(FOIL SIDE)

YC REC C.B.A.

Transistor		
Q9008	B-2	Ⓕ
Q9018	A-2	Ⓕ
Q9019	A-3	©
Q9020	A-2	Ⓕ
Q9034	B-3	Ⓕ
Q9101	D-1	©
Q9102	E-1	©
Q9103	F-1	Ⓕ
Q9104	F-1	Ⓕ
Q9107	F-1	Ⓕ
Q9108	G-2	Ⓕ
Q9109	F-1	Ⓕ
Q9110	F-1	Ⓕ
Q9118	E-2	Ⓕ
Q9119	E-2	©
Q9134	C-1	Ⓕ
Q9202	E-2	©
Q9207	F-1	Ⓕ
Q9221	C-1	Ⓕ
Q9319	D-2	Ⓕ
Q9320	C-3	©
Q9321	C-2	©
Q9322	C-3	©
Q9324	B-3	Ⓕ
Q9325	C-2	Ⓕ
Q9326	D-2	©
Q9327	C-3	©
Q9328	C-3	©
Q9410	E-3	Ⓕ

Transistor & Resistor		
QR9101	F-1	Ⓕ
QR9307	A-3	Ⓕ
QR9316	A-3	Ⓕ

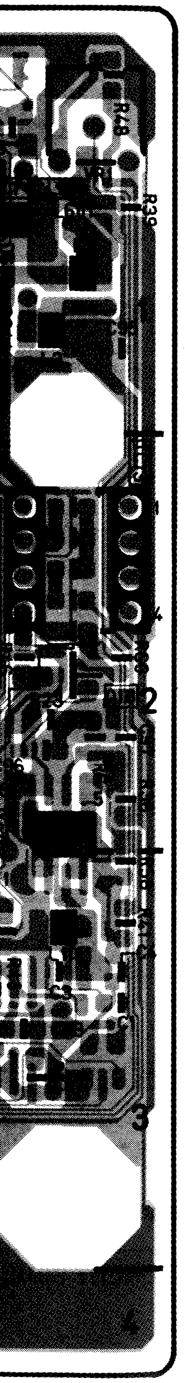
Integrated Circuit		
IC9011	A-3	©
IC9012	A-2	Ⓕ
IC9013	A-2	©
IC9013	A-2	Ⓕ
IC9014	A-3	©
IC9015	B-3	©
IC9015	B-3	Ⓕ
IC9016	A-2	Ⓕ
IC9017	A-2	Ⓕ
IC9021	B-2	Ⓕ
IC9101	E-1	Ⓕ
IC9102	D-1	©
IC9103	F-1	©
IC9103	F-2	Ⓕ
IC9104	D-2	Ⓕ
IC9105	D-2	©
IC9106	D-1	©
IC9112	E-2	Ⓕ
IC9113	E-1	©
IC9113	E-2	Ⓕ
IC9114	D-1	Ⓕ
IC9115	C-2	©
IC9115	C-1	Ⓕ
IC9121	D-2	Ⓕ
IC9201	D-1	©
IC9202	D-2	©
IC9203	D-2	©
IC9204	D-2	Ⓕ
IC9209	C-1	©
IC9209	C-1	Ⓕ
IC9212	F-2	Ⓕ
IC9222	G-1	Ⓕ
IC9302	C-2	Ⓕ
IC9310	B-3	©
IC9401	F-3	©
IC9401	F-3	Ⓕ
IC9403	E-3	©
IC9404	E-2	©
IC9405	F-2	©
IC9406	E-2	Ⓕ
IC9409	E-2	Ⓕ
IC9410	E-2	Ⓕ
IC9411	E-3	Ⓕ
IC9412	D-2	Ⓕ
IC9413	D-3	Ⓕ
IC9417	D-3	©
IC9419	D-2	©
IC9601	B-1	©
IC9602	B-2	Ⓕ
IC9603	B-1	©
IC9603	C-1	Ⓕ
IC9606	B-1	Ⓕ
IC9655	A-1	©
IC9671	C-2	Ⓕ
IC9691	B-2	Ⓕ

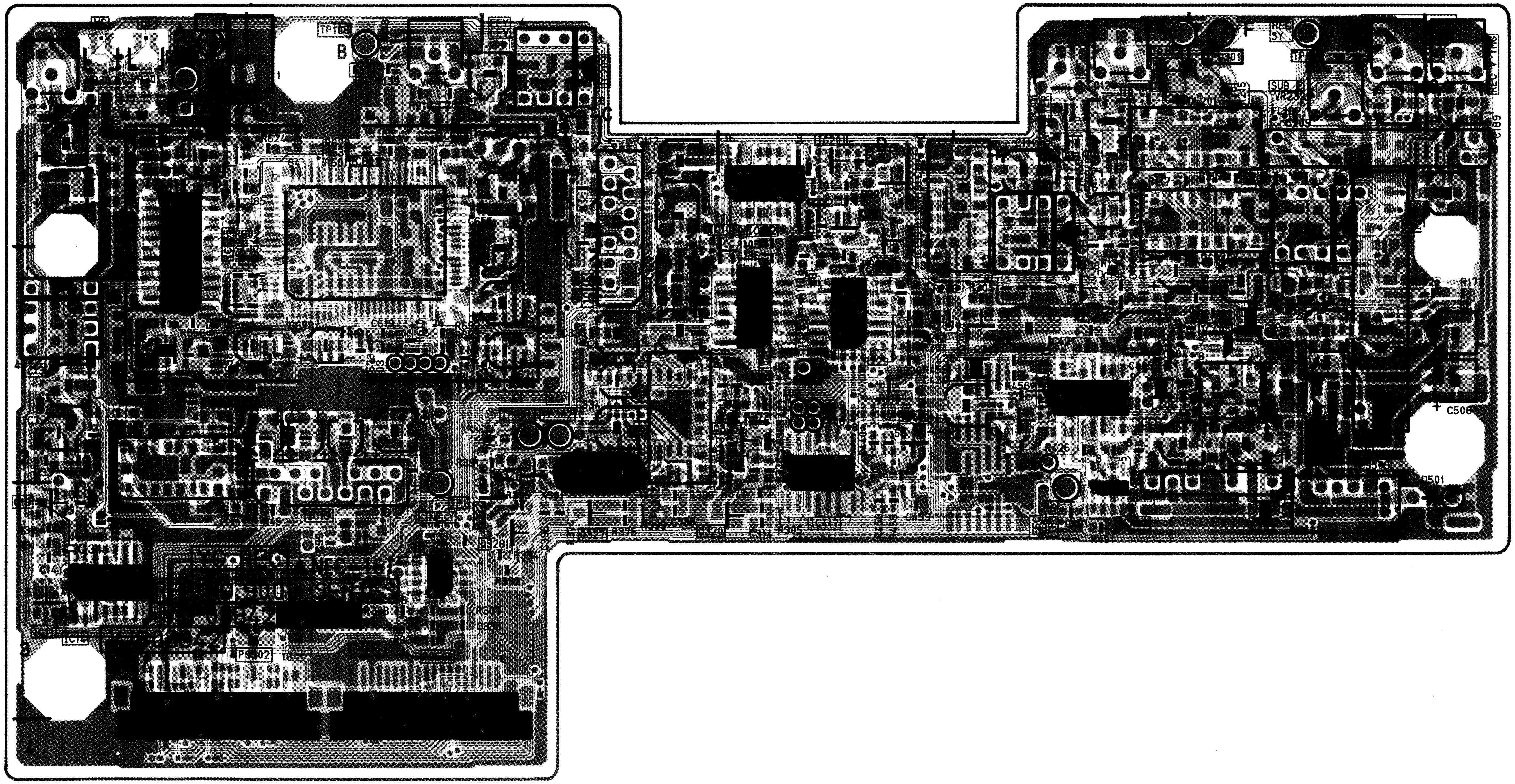
Test Point		
TP9001	B-3	©
TP9001	B-2	Ⓕ
TP9101	F-1	©
TP9101	F-1	Ⓕ
TP9102	E-2	©
TP9102	E-2	Ⓕ
TP9108	B-1	©
TP9108	B-1	Ⓕ
TP9301	C-2	©
TP9301	C-2	Ⓕ
TP9302	C-2	©
TP9302	C-2	Ⓕ
TP9305	E-3	©
TP9305	E-3	Ⓕ
TP9601	A-1	©
TP9601	A-1	Ⓕ
TPG9001	A-1	©
TPG9001	A-1	Ⓕ
TPG9301	F-1	©
TPG9301	F-1	Ⓕ

Adjustment		
VR9001	A-1	©
VR9001	A-1	Ⓕ
VR9106	B-1	©
VR9106	B-1	Ⓕ
VR9201	E-1	©
VR9201	E-1	Ⓕ
VR9202	F-1	©
VR9202	F-1	Ⓕ
VR9222	G-2	©
VR9222	G-1	Ⓕ
VR9232	F-1	©
VR9232	F-1	Ⓕ
VR9301	A-1	©
VR9302	A-1	©

Connector		
P9001	B-1	©
P9001	B-1	Ⓕ
P9501	B-3	©
P9502	B-3	©
P9503	F-2	©
P9503	F-2	Ⓕ

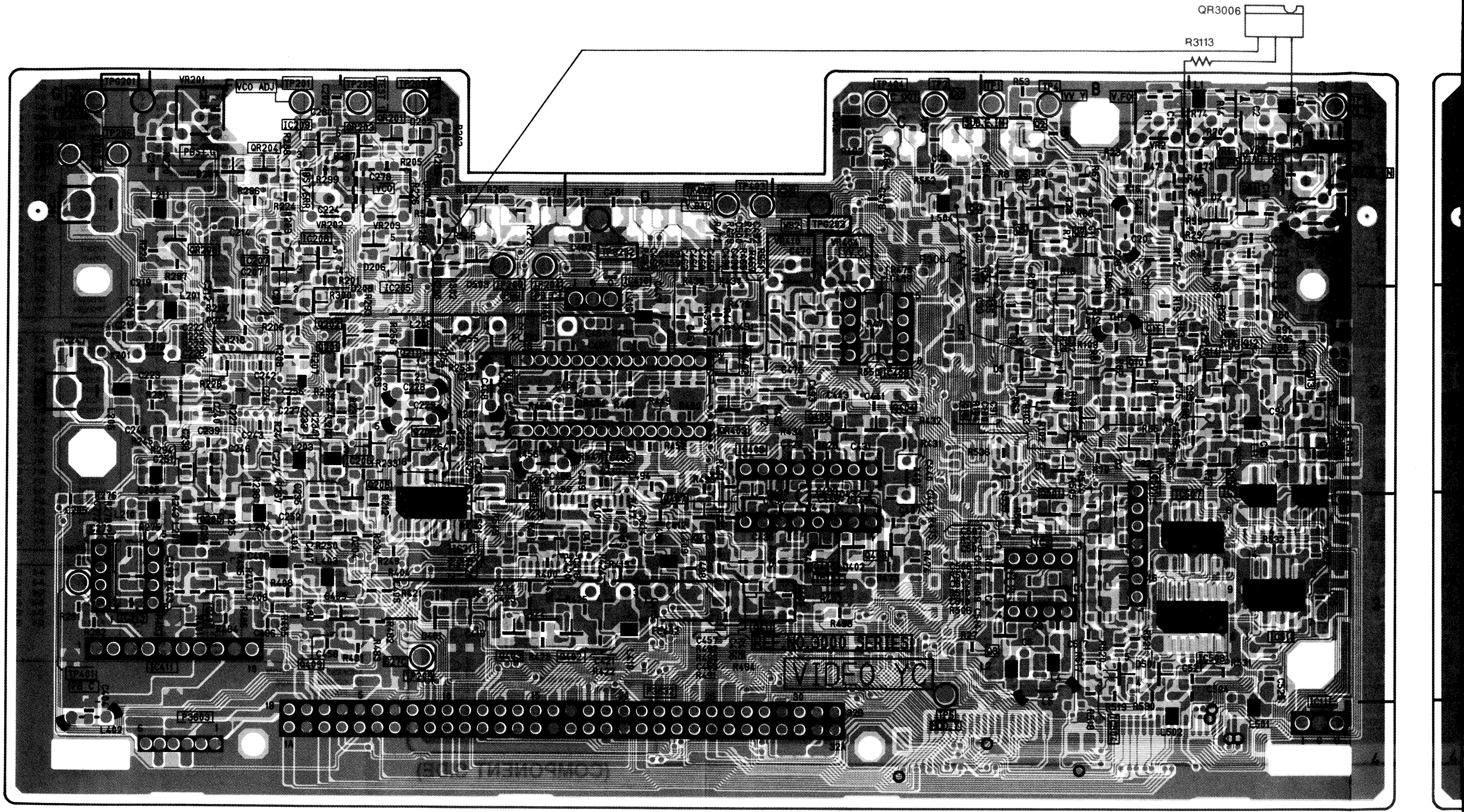
ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE


IL SIDE)

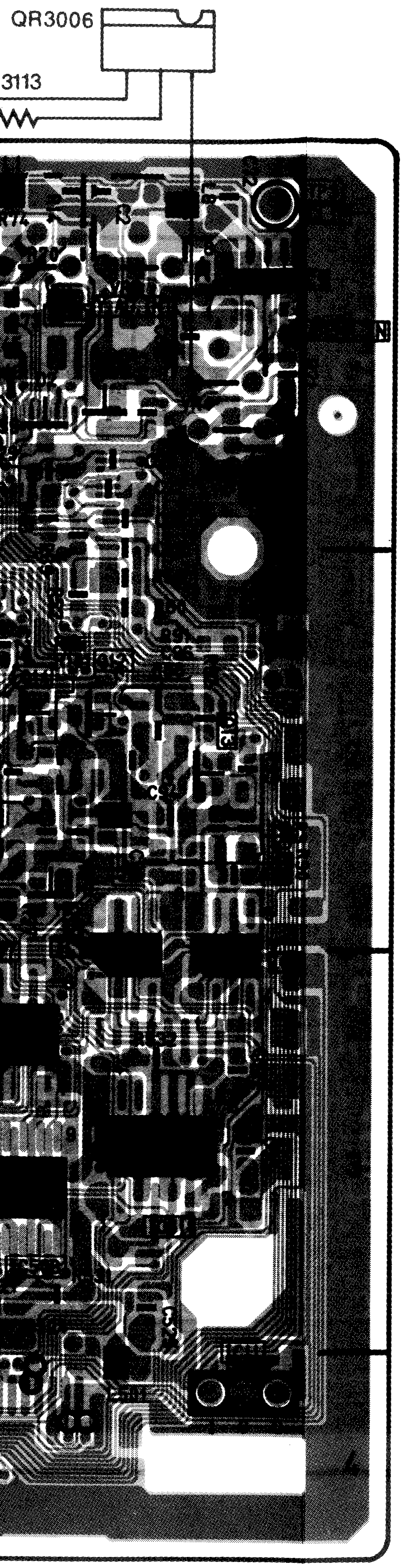


(COMPONENT SIDE)

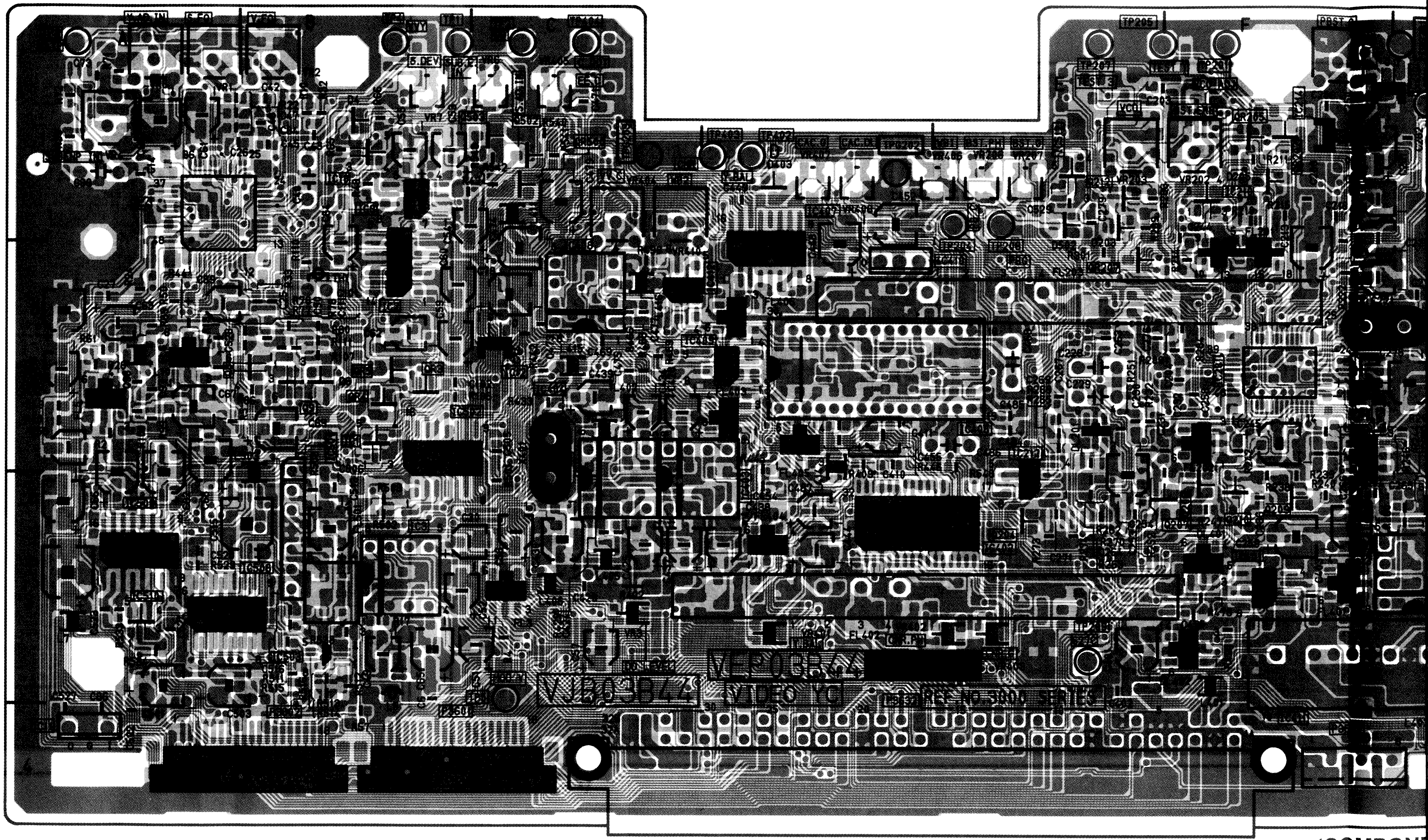
VIDEO YC C.B.A. (E6)


QR3006
R3113
VIDEO YC

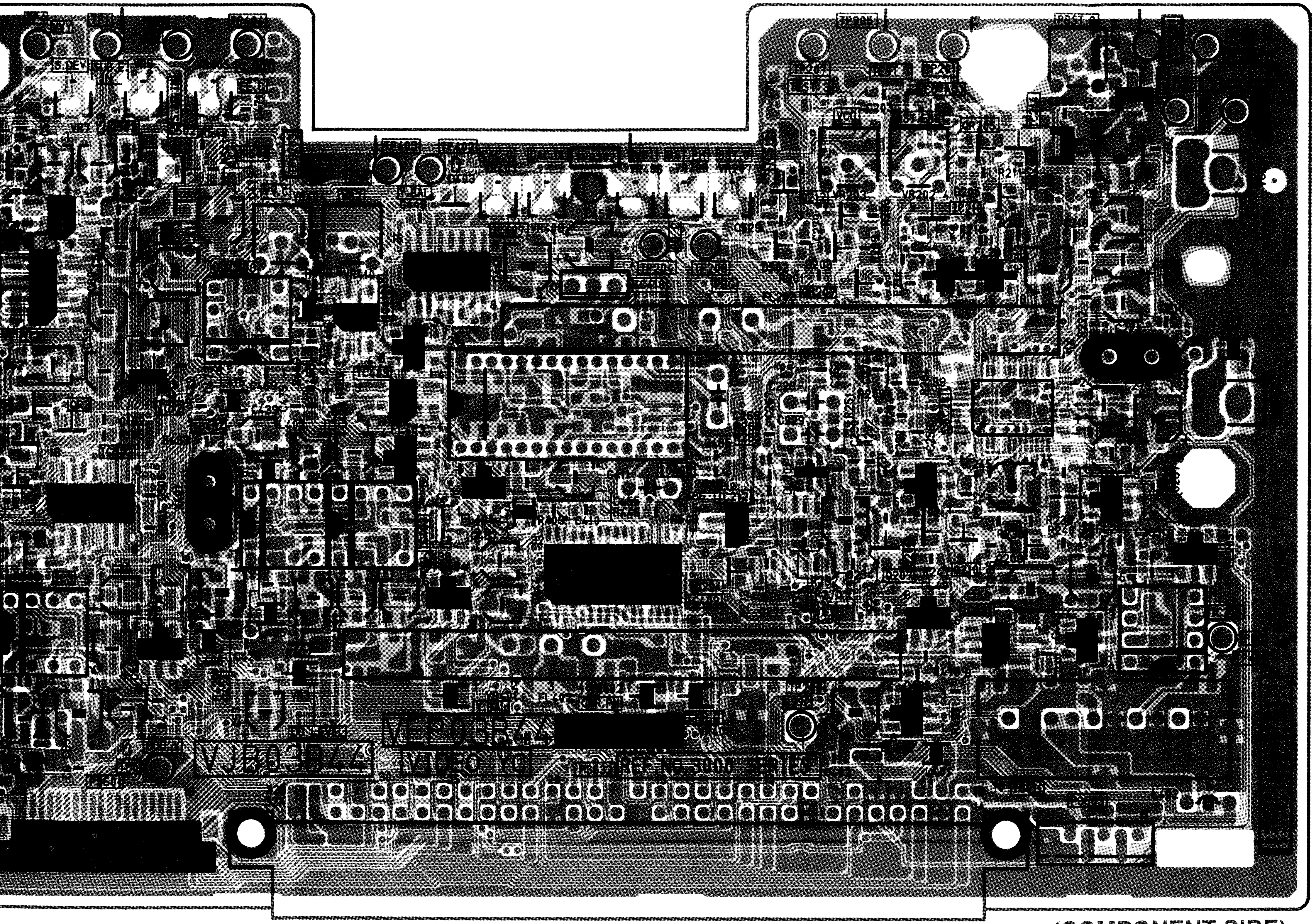
(FOIL SIDE)


QR3006
3113

(FOIL SIDE)


VEP03B44
VJB03B44
(VIDEO YC)
REF. NO. 3000 SERIES
TP205
TP403
TP402

(COMPONE



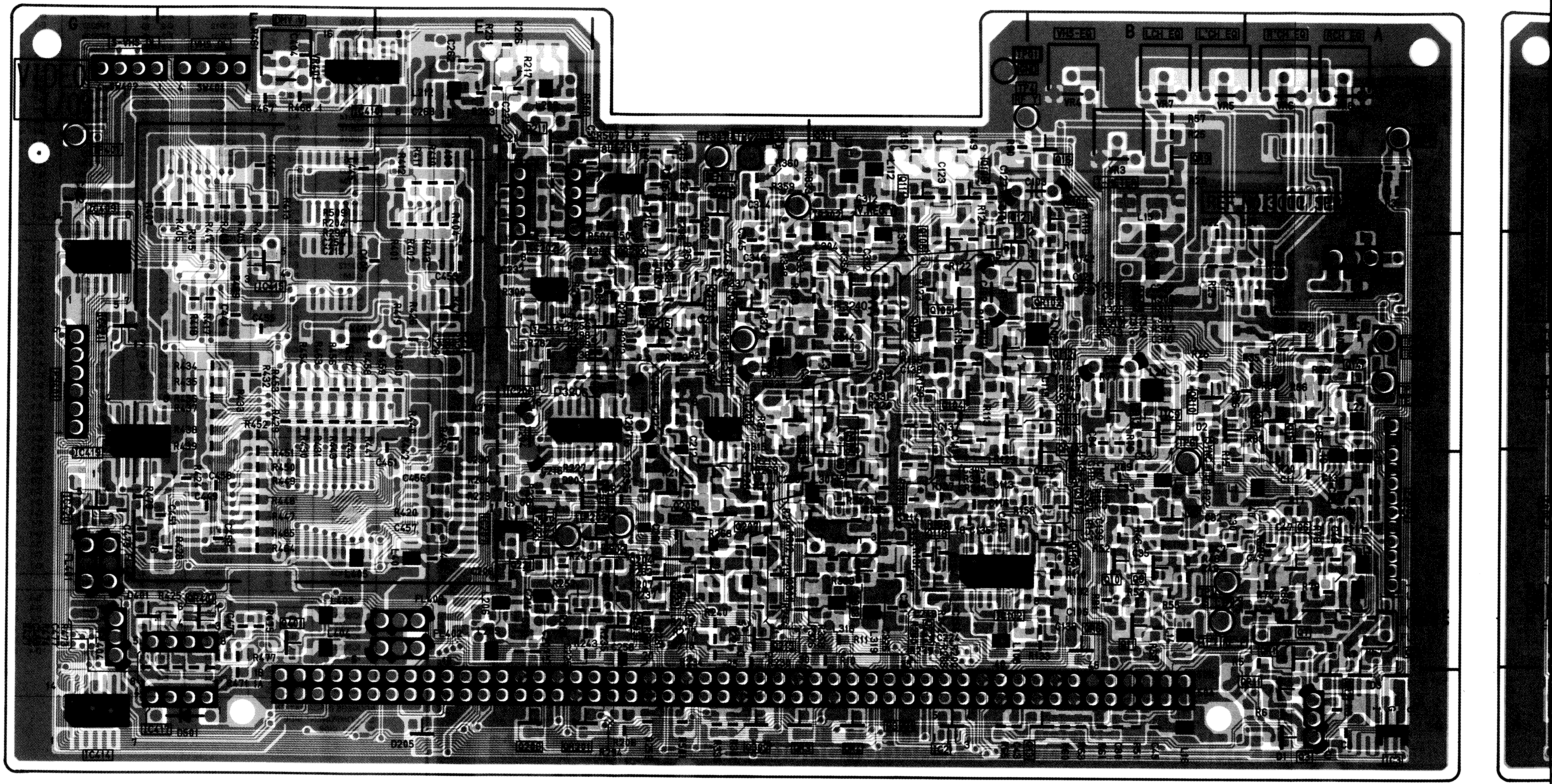
(COMPONENT SIDE)

VIDEO YC C.B.A.

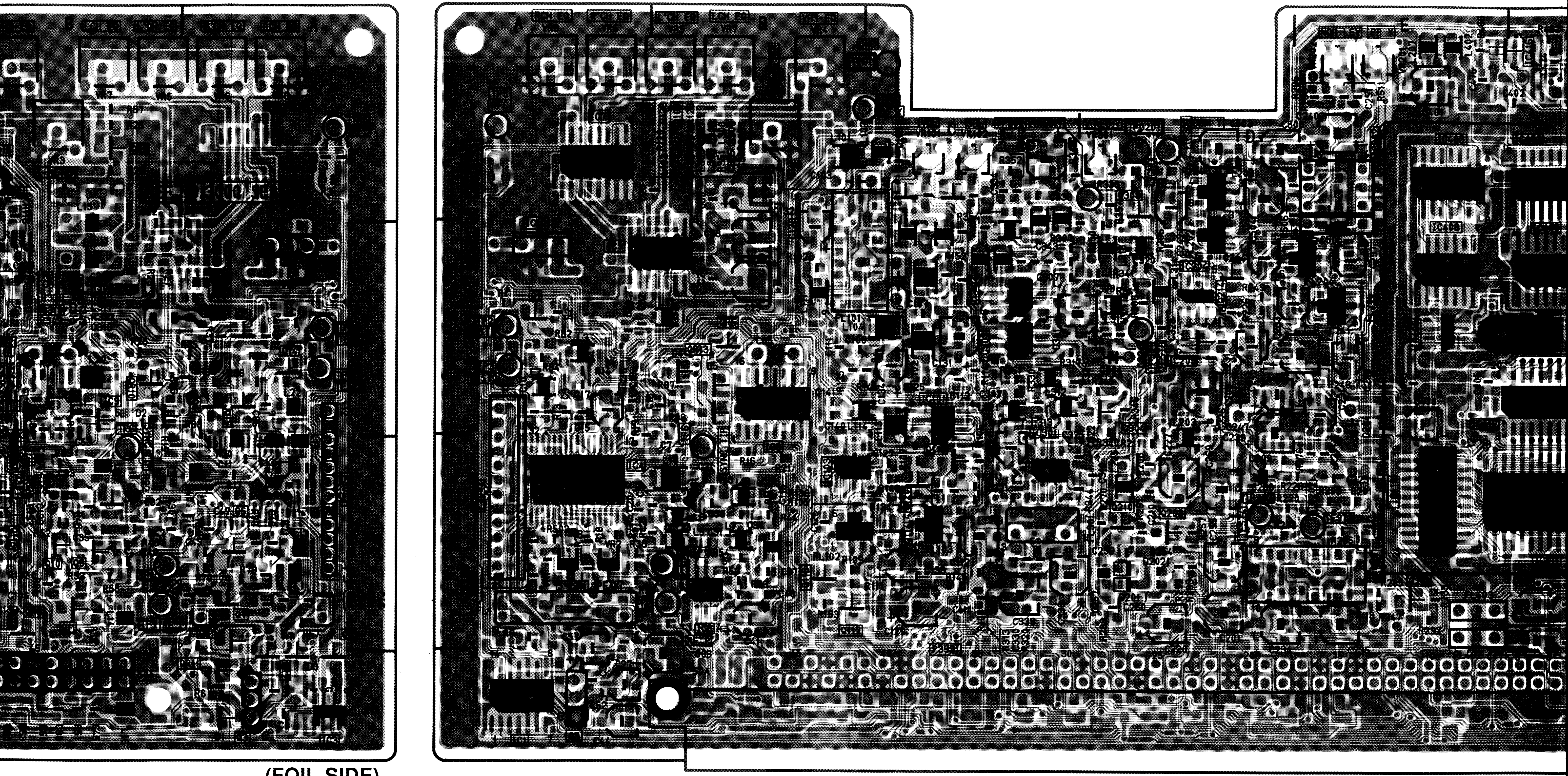
Transistor		
Q3002	B-1	Ⓕ
Q3003	B-3	Ⓕ
Q3005	B-1	Ⓕ
Q3006	B-1	Ⓕ
Q3007	B-1	Ⓕ
Q3008	A-2	©
Q3009	B-2	©
Q3010	B-2	Ⓕ
Q3011	B-2	Ⓕ
Q3012	A-2	Ⓕ
Q3013	A-2	Ⓕ
Q3014	A-2	Ⓕ
Q3015	A-2	Ⓕ
Q3016	B-2	Ⓕ
Q3201	F-2	Ⓕ
Q3202	F-2	Ⓕ
Q3203	E-2	Ⓕ
Q3204	E-3	Ⓕ
Q3205	F-3	Ⓕ
Q3206	F-3	©
Q3207	F-3	©
Q3208	E-3	Ⓕ
Q3209	F-3	©
Q3210	F-3	©
Q3211	E-2	Ⓕ
Q3212	E-1	©
Q3401	F-3	Ⓕ
Q3402	D-3	Ⓕ
Q3403	E-3	Ⓕ
Q3404	C-2	Ⓕ
Q3405	C-2	Ⓕ
Q3406	C-3	Ⓕ
Q3407	D-3	Ⓕ
Q3408	C-3	Ⓕ
Q3409	F-3	Ⓕ
Q3410	D-3	Ⓕ
Q3501	B-3	Ⓕ
Q3502	C-1	©
Q3503	C-1	©
Q3504	E-3	Ⓕ
Transistor & Resistor		
QR3001	A-1	Ⓕ
QR3003	B-2	©
QR3004	B-2	©
QR3005	B-2	©
QR3201	E-1	Ⓕ
QR3202	F-1	©
QR3203	E-1	Ⓕ
QR3204	F-1	Ⓕ
QR3205	F-1	©
QR3206	F-1	Ⓕ
QR3207	E-2	©
QR3402	D-2	Ⓕ
QR3403	D-2	Ⓕ
QR3500	C-1	©
Integrated Circuit		
IC3001	B-2	©
IC3002	B-2	©
IC3003	B-3	©
IC3003	B-3	Ⓕ
IC3004	A-1	©
IC3006	A-3	Ⓕ
IC3007	A-3	Ⓕ
IC3008	B-1	©
IC3009	A-1	Ⓕ
IC3010	B-1	©
IC3011	A-4	©
IC3011	A-4	Ⓕ
IC3012	C-2	©
IC3201	F-2	©
IC3205	E-2	Ⓕ
IC3206	E-2	Ⓕ
IC3207	F-1	Ⓕ
IC3208	F-1	Ⓕ
IC3209	F-1	©
IC3210	F-1	Ⓕ
IC3211	E-3	Ⓕ
IC3212	E-2	©
IC3213	G-3	©
IC3213	G-3	Ⓕ
IC3214	F-1	©
IC3215	G-1	©
IC3401	F-3	©
IC3402	E-3	©
IC3403	D-2	©
IC3403	D-2	Ⓕ
IC3404	C-2	©
IC3404	C-2	Ⓕ
IC3406	E-2	©
IC3406	D-2	Ⓕ
IC3407	D-1	©
IC3408	C-2	©
IC3409	D-2	©
IC3410	E-2	©
IC3410	D-2	Ⓕ
IC3411	F-3	©
IC3411	F-3	Ⓕ
IC3412	D-2	©
IC3501	B-2	©
IC3502	B-2	©
IC3502	B-2	Ⓕ
IC3503	B-3	©
IC3504	B-3	Ⓕ
IC3506	B-3	©
IC3507	B-3	©
IC3508	A-3	Ⓕ
IC3509	A-3	©
IC3510	A-3	©
IC3511	A-3	Ⓕ
IC3512	E-1	©
Test Point		
TP3001	B-1	©
TP3001	B-1	Ⓕ
TP3002	C-1	©
TP3002	C-1	Ⓕ
TP3003	A-1	©
TP3003	A-1	Ⓕ
TP3004	B-1	©
TP3004	B-1	Ⓕ
TP3005	C-3	©
TP3005	C-3	Ⓕ
TP3201	F-1	©
TP3201	F-1	Ⓕ
TP3202	G-1	©
TP3202	G-1	Ⓕ
TP3203	G-1	©
TP3203	G-1	Ⓕ
TP3204	E-1	©
TP3204	E-1	Ⓕ
TP3205	E-1	©
TP3205	E-1	Ⓕ
TP3206	G-1	©
TP3206	G-1	Ⓕ
TP3207	E-1	©
TP3207	E-1	Ⓕ
TP3208	E-1	©
TP3208	E-1	Ⓕ
TP3209	E-3	©
TP3209	E-3	Ⓕ
TP3401	G-3	©
TP3401	G-3	Ⓕ
TP3402	D-1	©
TP3402	D-1	Ⓕ
TP3403	D-1	©
TP3403	D-1	Ⓕ
TP3404	C-1	©
TP3404	C-1	Ⓕ
TPG3201	G-1	©
TPG3201	G-1	Ⓕ
TPG3202	D-1	©
TPG3202	D-1	Ⓕ
TPG3203	C-1	©
TPG3203	C-1	Ⓕ
Adjustment		
VC3201	G-1	©
VC3201	G-1	©
VC3202	G-2	©
VC3202	G-2	Ⓕ
VR3001	A-1	©
VR3001	A-1	Ⓕ
VR3002	B-1	©
VR3003	C-3	©
VR3004	A-1	©
VR3004	A-1	Ⓕ
VR3005	A-1	©
VR3005	A-1	Ⓕ
VR3006	C-1	©
VR3007	B-1	©
VR3201	F-1	©
VR3201	F-1	Ⓕ
VR3202	F-1	©
VR3203	E-1	©
VR3203	E-1	Ⓕ
VR3206	E-1	©
VR3207	E-1	©
VR3402	E-3	©
VR3403	E-3	©
VR3404	C-1	©
VR3404	C-1	Ⓕ
VR3405	C-1	©
VR3406	E-1	©
VR3407	D-1	©
VR3408	D-1	©
VR3410	C-1	©
VR3410	C-1	Ⓕ
Connector		
P3601	B-4	©
P3602	B-4	©
P3603	F-4	©
P3603	F-4	Ⓕ
P3632	D-4	©
P3632	D-4	Ⓕ

ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE

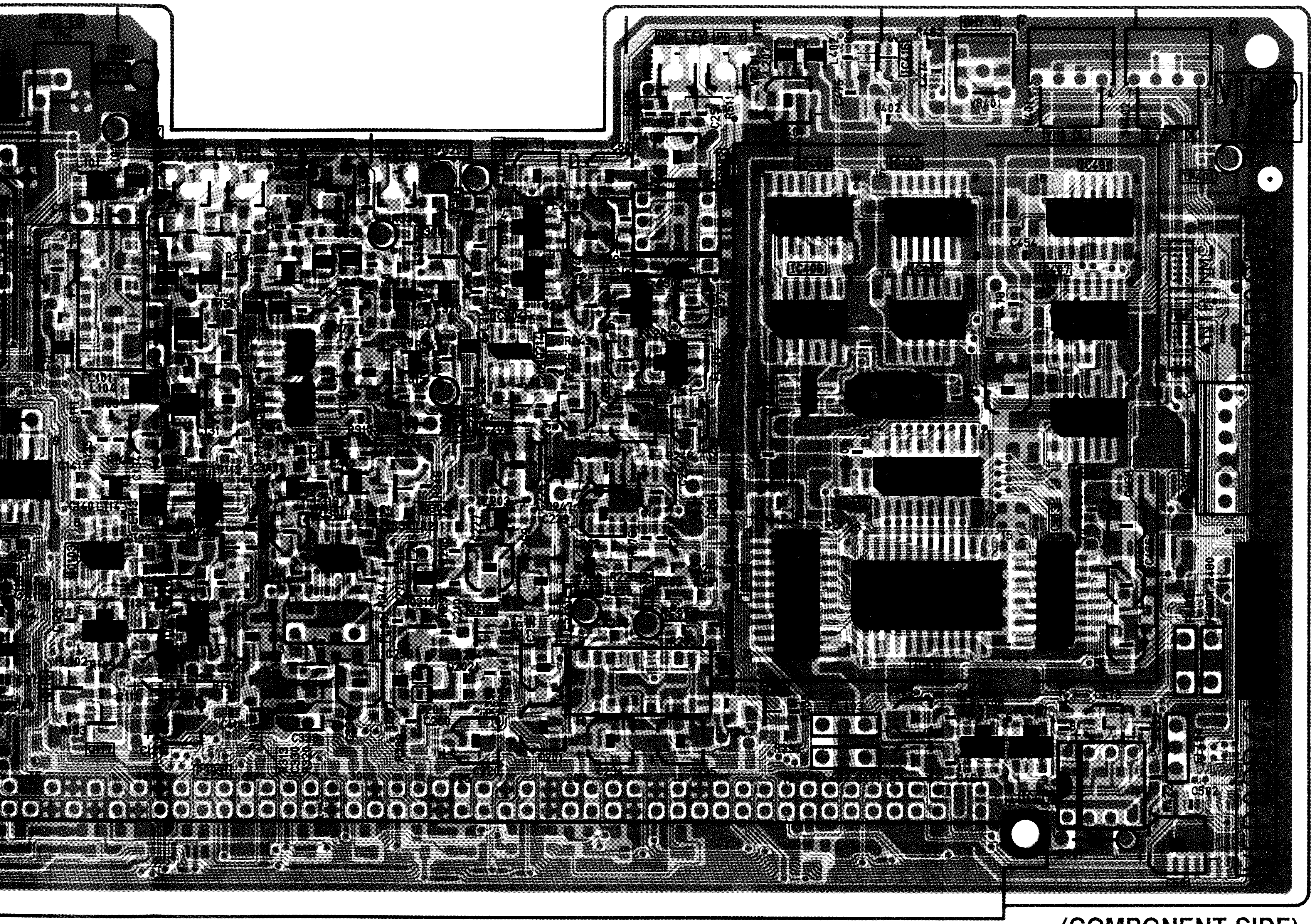
VIDEO I/O C.B.A. (E5)



(FOIL SIDE)



(FOIL SIDE)



(COMPONENT SIDE)

VIDEO I/O C.B.A.

Transistor		
Q3001	A-2	©
Q3002	A-3	Ⓕ
Q3003	A-4	©
Q3003	A-4	Ⓕ
Q3004	A-2	Ⓕ
Q3005	A-2	Ⓕ
Q3006	A-3	Ⓕ
Q3007	A-3	Ⓕ
Q3008	B-3	Ⓕ
Q3009	B-3	Ⓕ
Q3010	B-3	Ⓕ
Q3011	B-3	Ⓕ
Q3013	B-4	Ⓕ
Q3014	A-2	Ⓕ
Q3015	A-2	Ⓕ
Q3016	B-1	Ⓕ
Q3101	B-1	Ⓕ
Q3104	C-2	Ⓕ
Q3105	C-2	Ⓕ
Q3106	C-2	Ⓕ
Q3107	B-1	©
Q3108	C-1	Ⓕ
Q3109	B-1	©
Q3111	C-1	Ⓕ
Q3112	B-2	Ⓕ
Q3113	B-2	Ⓕ
Q3114	C-3	©
Q3115	B-3	Ⓕ
Q3116	B-3	©
Q3117	B-3	©
Q3118	C-3	Ⓕ
Q3119	C-3	©
Q3120	C-3	©
Q3122	C-2	Ⓕ
Q3201	E-3	©
Q3202	D-3	Ⓕ
Q3203	D-3	Ⓕ
Q3204	D-4	Ⓕ
Q3205	D-3	Ⓕ
Q3206	E-4	Ⓕ
Q3207	D-3	Ⓕ
Q3208	D-3	©
Q3210	D-3	©
Q3211	E-1	Ⓕ
Q3213	D-3	Ⓕ
Q3214	D-2	©
Q3215	D-1	Ⓕ
Q3216	D-2	Ⓕ
Q3217	D-2	Ⓕ
Q3219	D-2	Ⓕ
Q3221	E-3	Ⓕ
Q3223	D-3	Ⓕ
Q3302	D-4	Ⓕ
Q3303	C-3	Ⓕ
Q3304	D-2	©
Q3306	C-2	Ⓕ
Q3307	B-3	Ⓕ
Q3308	D-1	©
Q3309	D-2	Ⓕ
Q3310	B-2	Ⓕ
Q3312	B-2	Ⓕ
Q3401	F-1	Ⓕ

Transistor & Resistor		
QR3001	A-3	Ⓕ
QR3002	A-4	Ⓕ
QR3003	D-4	Ⓕ
QR3004	C-4	Ⓕ
QR3005	B-2	©
QR3006	B-3	Ⓕ
QR3009	B-1	Ⓕ
QR3010	B-2	Ⓕ
QR3011	A-4	Ⓕ
QR3012	B-2	Ⓕ
QR3013	B-2	©
QR3102	B-2	Ⓕ
QR3201	E-4	Ⓕ
QR3202	D-2	Ⓕ
QR3401	F-3	Ⓕ

Integrated Circuit		
IC3001	A-4	©
IC3002	C-4	Ⓕ
IC3003	A-4	Ⓕ
IC3004	A-3	©
IC3006	B-3	©
IC3007	A-1	©
IC3008	B-3	©
IC3009	B-2	Ⓕ
IC3010	A-2	©
IC3010	A-2	Ⓕ
IC3101	C-2	©
IC3102	C-3	Ⓕ
IC3103	B-3	©
IC3201	D-2	Ⓕ
IC3202	E-1	©
IC3202	E-1	Ⓕ
IC3203	E-2	Ⓕ
IC3204	D-2	©
IC3205	D-2	©
IC3206	E-2	Ⓕ
IC3207	E-3	Ⓕ
IC3208	D-1	Ⓕ
IC3301	C-2	©
IC3302	C-2	©
IC3303	C-2	©
IC3401	F-1	©
IC3402	F-1	©
IC3403	E-1	©
IC3404	F-2	©
IC3405	F-2	©
IC3406	E-2	©
IC3407	F-2	©
IC3408	E-2	©
IC3409	G-1	Ⓕ
IC3410	F-1	Ⓕ
IC3411	F-3	©
IC3412	E-2	©
IC3413	F-2	©
IC3414	G-4	Ⓕ
IC3415	F-2	Ⓕ
IC3416	F-1	©
IC3417	F-4	©
IC3417	F-4	Ⓕ
IC3418	E-3	©
IC3419	G-3	Ⓕ
IC3420	G-3	Ⓕ
IC3421	G-2	Ⓕ

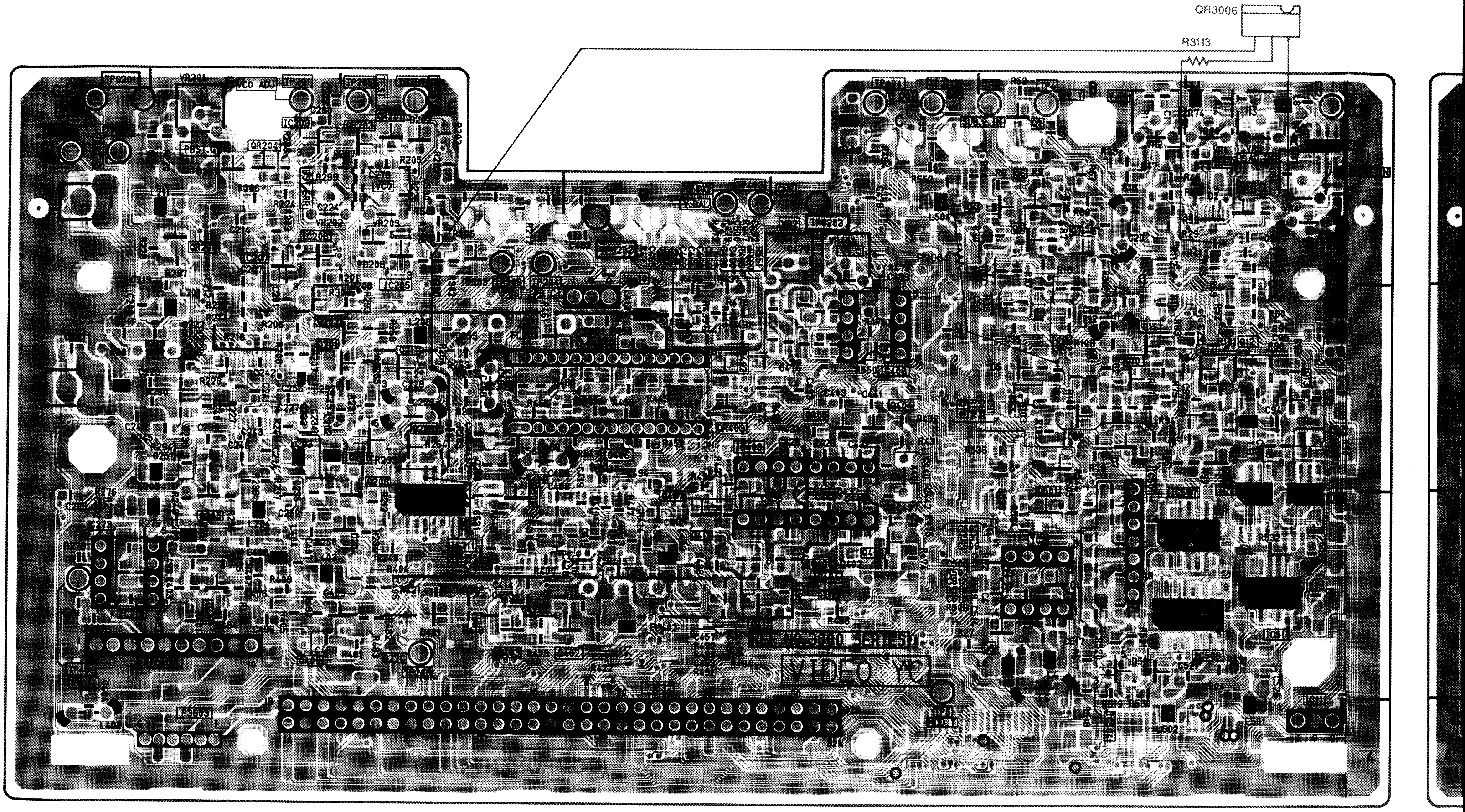
Test Point		
TP3001	B-3	©
TP3001	B-3	Ⓕ
TP3002	A-2	©
TP3002	A-2	Ⓕ
TP3003	A-2	©
TP3003	A-2	Ⓕ
TP3004	C-1	©
TP3004	C-1	Ⓕ
TP3005	A-1	©
TP3005	A-1	Ⓕ
TP3006	B-3	©
TP3006	B-3	Ⓕ
TP3007	B-3	©
TP3007	B-3	Ⓕ
TP3202	E-3	©
TP3202	E-3	Ⓕ
TP3203	D-3	©
TP3203	D-3	Ⓕ
TP3301	D-2	©
TP3301	D-2	Ⓕ
TP3302	D-1	©
TP3302	D-1	Ⓕ
TP3307	D-1	©
TP3307	D-1	Ⓕ
TP3401	G-1	©
TP3401	G-1	Ⓕ
TPG3001	C-1	©
TPG3001	C-1	Ⓕ
TPG3201	D-1	©
TPG3201	D-1	Ⓕ

Adjustment		
VR3001	A-3	©
VR3002	A-3	©
VR3003	B-1	©
VR3003	B-1	Ⓕ
VR3004	B-1	©
VR3004	B-1	Ⓕ
VR3005	B-1	©
VR3005	B-1	Ⓕ
VR3006	A-1	©
VR3006	A-1	Ⓕ
VR3007	B-1	©
VR3007	B-1	Ⓕ
VR3008	A-1	©
VR3008	A-1	Ⓕ
VR3101	C-1	©
VR3102	C-1	©
VR3201	E-1	©
VR3202	E-1	©
VR3301	D-1	©
VR3401	F-1	©
VR3401	F-1	Ⓕ

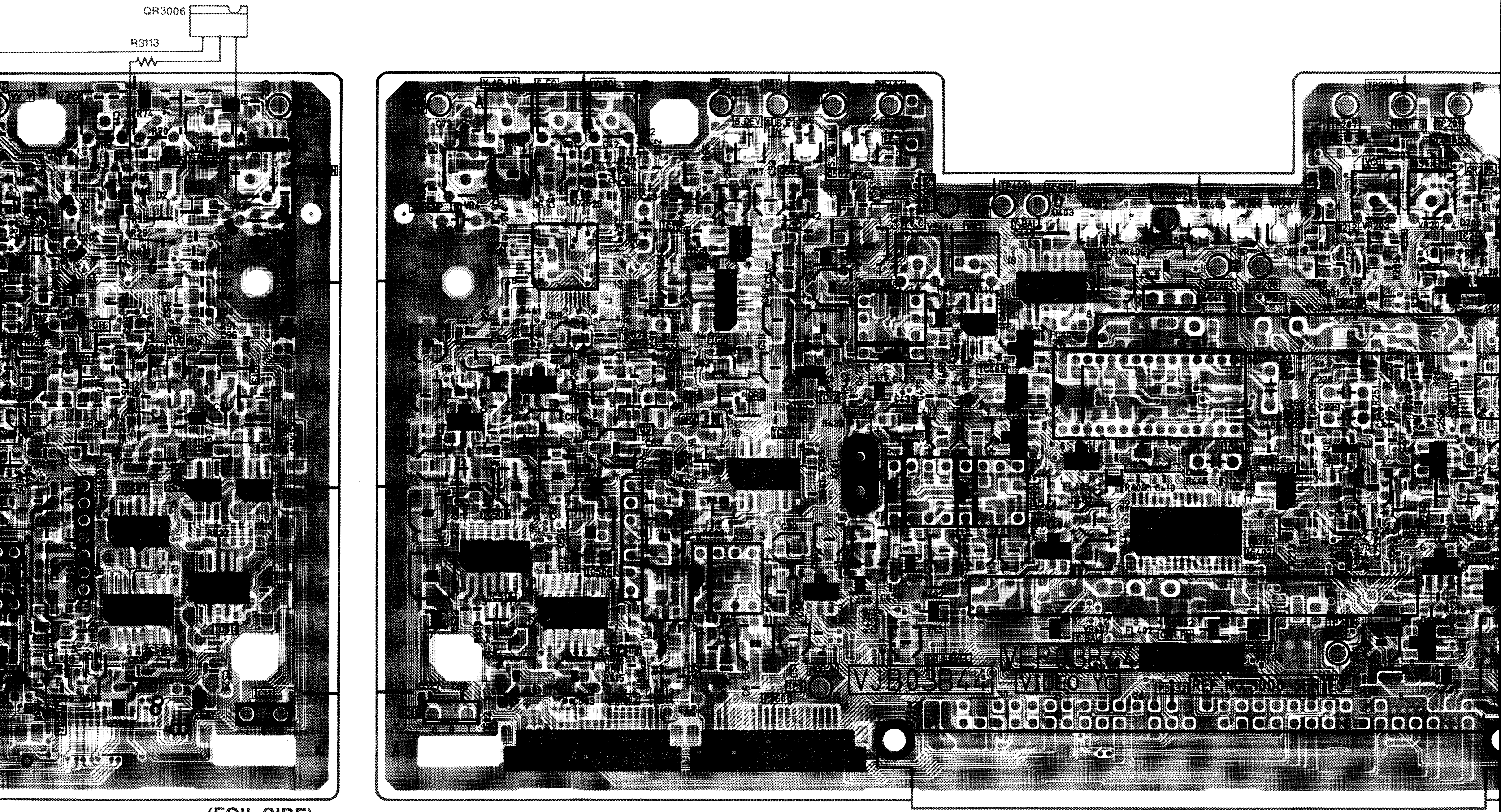
Connector		
P3002	A-3	©
P3002	A-3	Ⓕ
P3401	G-2	©
P3401	G-2	Ⓕ
P3931	C-4	©
P3931	C-4	Ⓕ

ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE

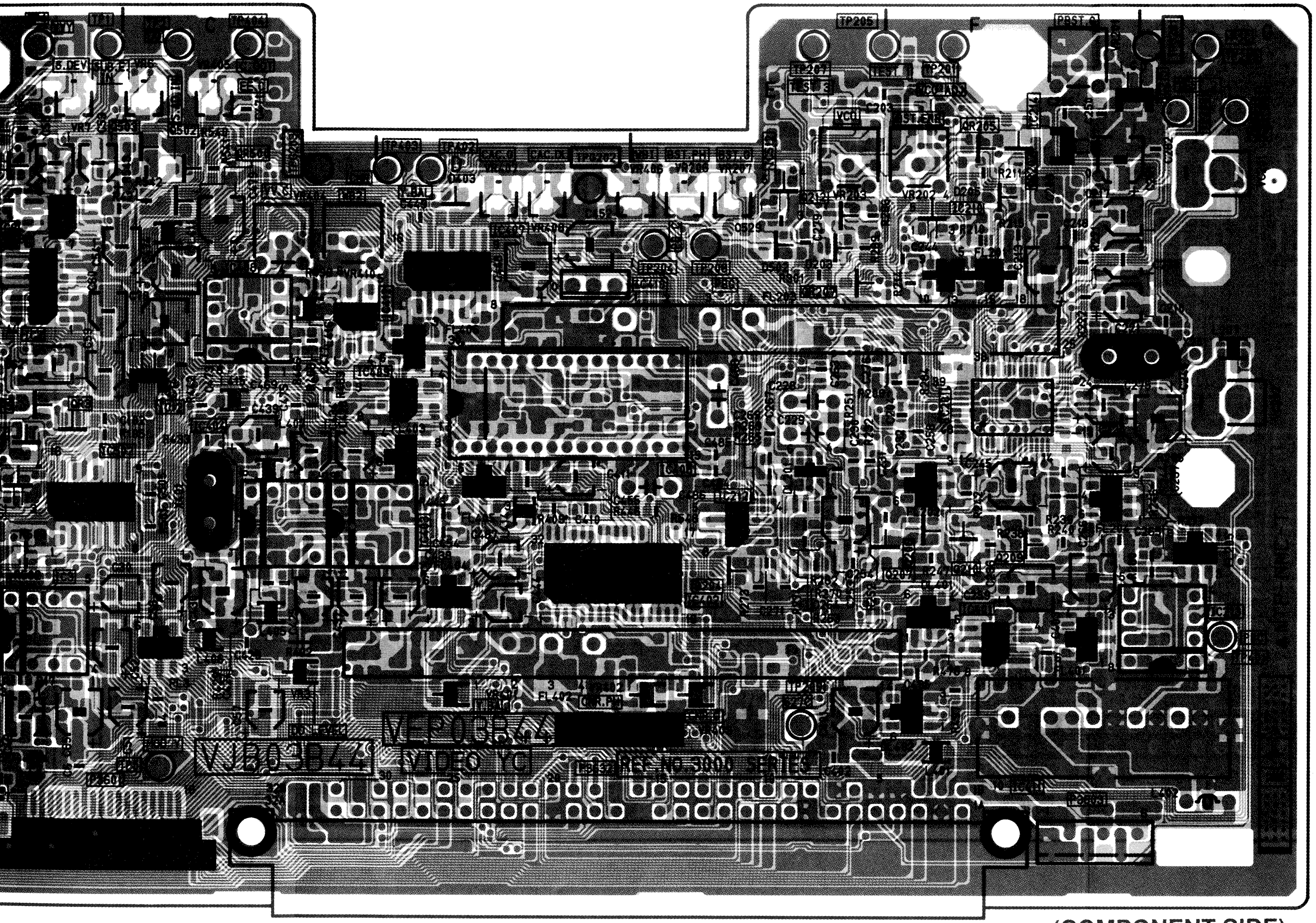
VIDEO YC C.B.A. (E6)


QR3006
R3113
VCO ADJ
REF NO.3000 SERIES
VIDEO YC
IC411
P3603
TP401
PB C

(FOIL SIDE)


QR3006
R3113
VJB03B44
VEP03B44
VIDEO YC
REF. NO. 3000 SERIES

(FOIL SIDE)



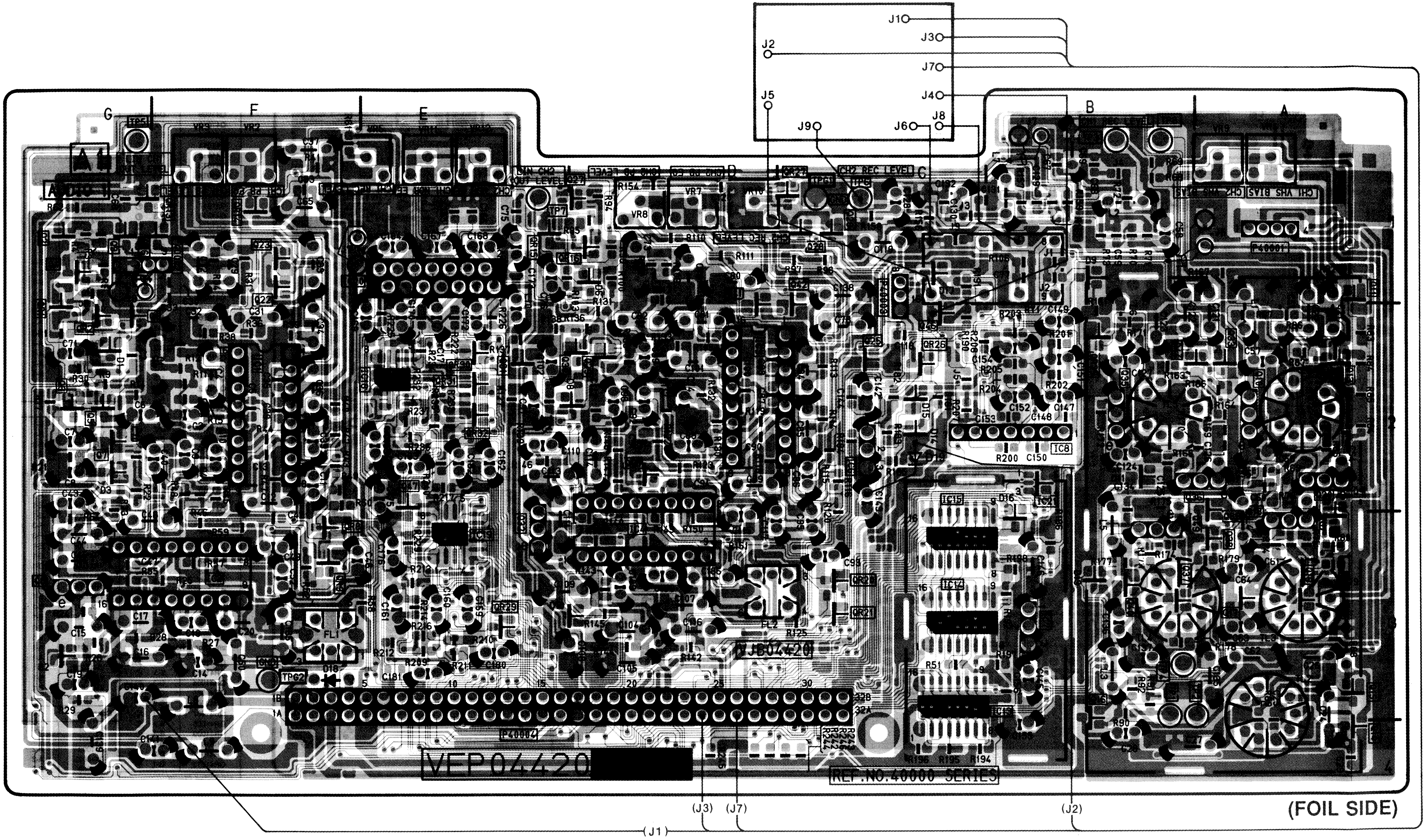
(COMPONENT SIDE)

VIDEO YC C.B.A.

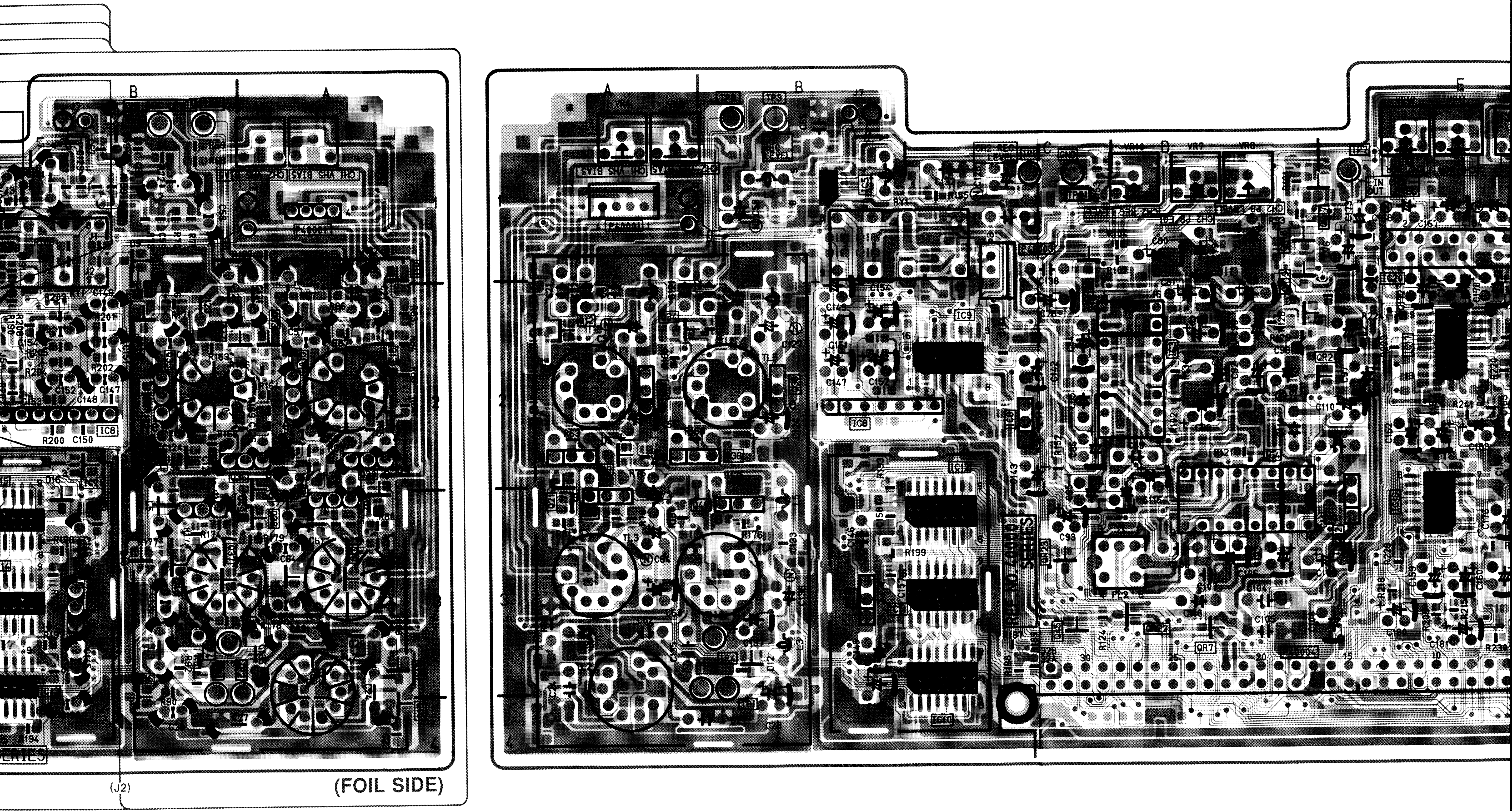
Transistor		
Q3002	B-1	Ⓕ
Q3003	B-3	Ⓕ
Q3005	B-1	Ⓕ
Q3006	B-1	Ⓕ
Q3007	B-1	Ⓕ
Q3008	A-2	©
Q3009	B-2	©
Q3010	B-2	Ⓕ
Q3011	B-2	Ⓕ
Q3012	A-2	Ⓕ
Q3013	A-2	Ⓕ
Q3014	A-2	Ⓕ
Q3015	A-2	Ⓕ
Q3016	B-2	Ⓕ
Q3201	F-2	Ⓕ
Q3202	F-2	Ⓕ
Q3203	E-2	Ⓕ
Q3204	E-3	Ⓕ
Q3205	F-3	Ⓕ
Q3206	F-3	©
Q3207	F-3	©
Q3208	E-3	Ⓕ
Q3209	F-3	©
Q3210	F-3	©
Q3211	E-2	Ⓕ
Q3212	E-1	©
Q3401	F-3	Ⓕ
Q3402	D-3	Ⓕ
Q3403	E-3	Ⓕ
Q3404	C-2	Ⓕ
Q3405	C-2	Ⓕ
Q3406	C-3	Ⓕ
Q3407	D-3	Ⓕ
Q3408	C-3	Ⓕ
Q3409	F-3	Ⓕ
Q3410	D-3	Ⓕ
Q3501	B-3	Ⓕ
Q3502	C-1	©
Q3503	C-1	©
Q3504	E-3	Ⓕ
Transistor & Resistor		
QR3001	A-1	Ⓕ
QR3003	B-2	©
QR3004	B-2	©
QR3005	B-2	©
QR3201	E-1	Ⓕ
QR3202	F-1	©
QR3203	E-1	Ⓕ
QR3204	F-1	Ⓕ
QR3205	F-1	©
QR3206	F-1	Ⓕ
QR3207	E-2	©
QR3402	D-2	Ⓕ
QR3403	D-2	Ⓕ
QR3500	C-1	©
Integrated Circuit		
IC3001	B-2	©
IC3002	B-2	©
IC3003	B-3	©
IC3003	B-3	Ⓕ
IC3004	A-1	©
IC3006	A-3	Ⓕ
IC3007	A-3	Ⓕ
IC3008	B-1	©
IC3009	A-1	Ⓕ
IC3010	B-1	©
IC3011	A-4	©
IC3011	A-4	Ⓕ
IC3012	C-2	©
IC3201	F-2	©
IC3205	E-2	Ⓕ
IC3206	E-2	Ⓕ
IC3207	F-1	Ⓕ
IC3208	F-1	Ⓕ
IC3209	F-1	©
IC3210	F-1	Ⓕ
IC3211	E-3	Ⓕ
IC3212	E-2	©
IC3213	G-3	©
IC3213	G-3	Ⓕ
IC3214	F-1	©
IC3215	G-1	©
IC3401	F-3	©
IC3402	E-3	©
IC3403	D-2	©
IC3403	D-2	Ⓕ
IC3404	C-2	©
IC3404	C-2	Ⓕ
IC3406	E-2	©
IC3406	D-2	Ⓕ
IC3407	D-1	©
IC3408	C-2	©
IC3409	D-2	©
IC3410	E-2	©
IC3410	D-2	Ⓕ
IC3411	F-3	©
IC3411	F-3	Ⓕ
IC3412	D-2	©
IC3501	B-2	©
IC3502	B-2	©
IC3502	B-2	Ⓕ
IC3503	B-3	©
IC3504	B-3	Ⓕ
IC3506	B-3	©
IC3507	B-3	©
IC3508	A-3	Ⓕ
IC3509	A-3	©
IC3510	A-3	©
IC3511	A-3	Ⓕ
IC3512	E-1	©
Test Point		
TP3001	B-1	©
TP3001	B-1	Ⓕ
TP3002	C-1	©
TP3002	C-1	Ⓕ
TP3003	A-1	©
TP3003	A-1	Ⓕ
TP3004	B-1	©
TP3004	B-1	Ⓕ
TP3005	C-3	©
TP3005	C-3	Ⓕ
TP3201	F-1	©
TP3201	F-1	Ⓕ
TP3202	G-1	©
TP3202	G-1	Ⓕ
TP3203	G-1	©
TP3203	G-1	Ⓕ
TP3204	E-1	©
TP3204	E-1	Ⓕ
TP3205	E-1	©
TP3205	E-1	Ⓕ
TP3206	G-1	©
TP3206	G-1	Ⓕ
TP3207	E-1	©
TP3207	E-1	Ⓕ
TP3208	E-1	©
TP3208	E-1	Ⓕ
TP3209	E-3	©
TP3209	E-3	Ⓕ
TP3401	G-3	©
TP3401	G-3	Ⓕ
TP3402	D-1	©
TP3402	D-1	Ⓕ
TP3403	D-1	©
TP3403	D-1	Ⓕ
TP3404	C-1	©
TP3404	C-1	Ⓕ
TPG3201	G-1	©
TPG3201	G-1	Ⓕ
TPG3202	D-1	©
TPG3202	D-1	Ⓕ
TPG3203	C-1	©
TPG3203	C-1	Ⓕ
Adjustment		
VC3201	G-1	©
VC3201	G-1	©
VC3202	G-2	©
VC3202	G-2	Ⓕ
VR3001	A-1	©
VR3001	A-1	Ⓕ
VR3002	B-1	©
VR3003	C-3	©
VR3004	A-1	©
VR3004	A-1	Ⓕ
VR3005	A-1	©
VR3005	A-1	Ⓕ
VR3006	C-1	©
VR3007	B-1	©
VR3201	F-1	©
VR3201	F-1	Ⓕ
VR3202	F-1	©
VR3203	E-1	©
VR3203	E-1	Ⓕ
VR3206	E-1	©
VR3207	E-1	©
VR3402	E-3	©
VR3403	E-3	©
VR3404	C-1	©
VR3404	C-1	Ⓕ
VR3405	C-1	©
VR3406	E-1	©
VR3407	D-1	©
VR3408	D-1	©
VR3410	C-1	©
VR3410	C-1	Ⓕ
Connector		
P3601	B-4	©
P3602	B-4	©
P3603	F-4	©
P3603	F-4	Ⓕ
P3632	D-4	©
P3632	D-4	Ⓕ

ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE

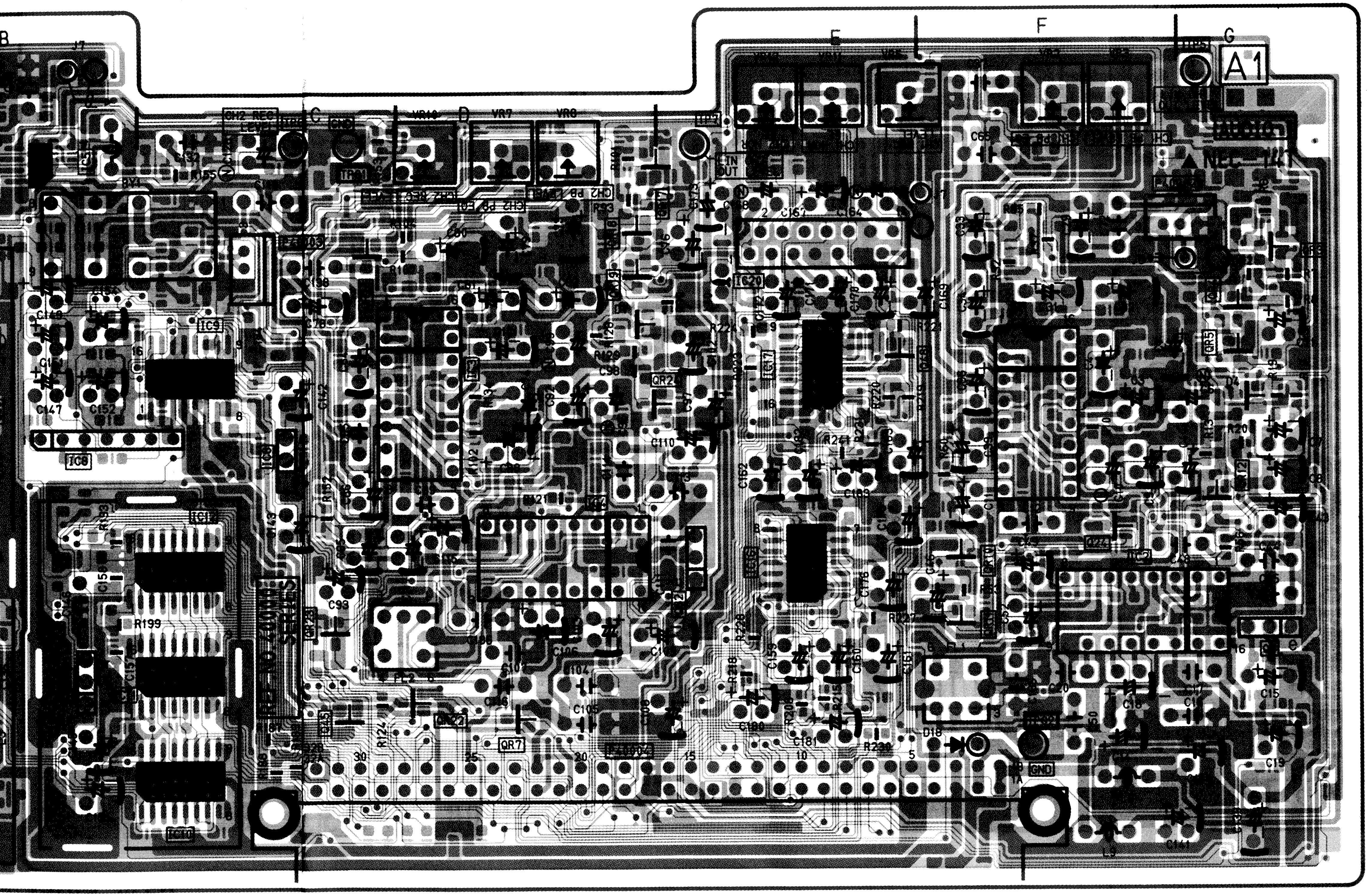
AUDIO (1) C.B.A. (E7)


TIME CODE SUB C.B.A. (E103: AG-7700 ONLY)
J1
J2
J3
J4
J5
J6
J7
J8
J9
G
F
E
D
C
B
A
VR8
VR7
VR10
CH2 REC LEVEL
IC8
IC14
IC15
FL1
FL2
TP62
P40004
P40001
VEP04420
REF.NO.40000 SERIES
(J3)
(J7)
(J2)
(J1)
(FOIL SIDE)

A. (E103: AG-7700 ONLY)


A
B
C
D
E
CH1 VHS BIAS
CH2 VHS BIAS
CH2 REC LEVEL
CH2 PB LEVEL
P4000
P40003
P40004
IC8
IC9
IC10
IC12
R200
C150
C147
C152
C148
R202
R203
R174
R176
R199
TL1
TL3
VR7
VR8
VR10
QR7
J7
(J2)

(FOIL SIDE)



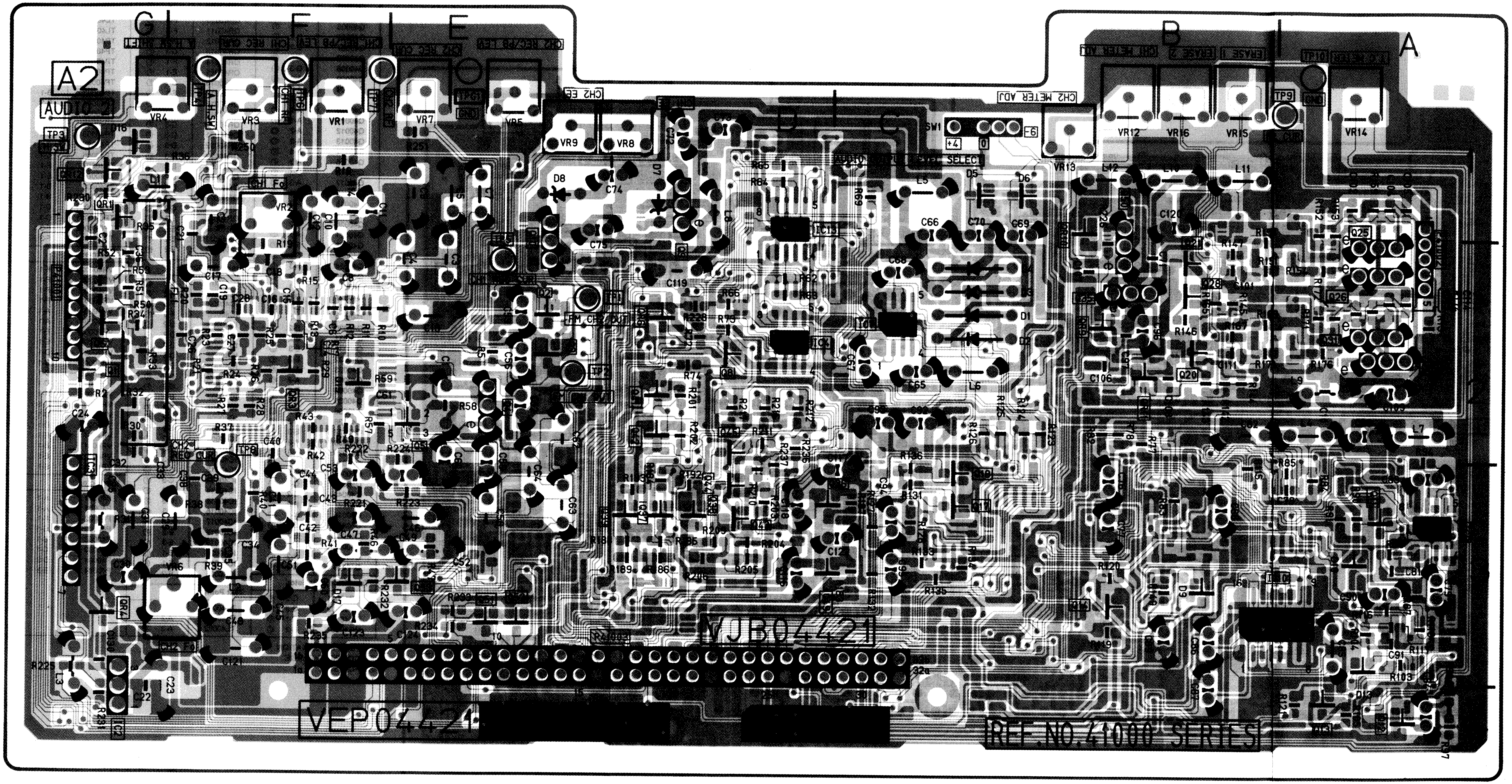
(COMPONENT SIDE)

AUDIO (1) C.B.A.

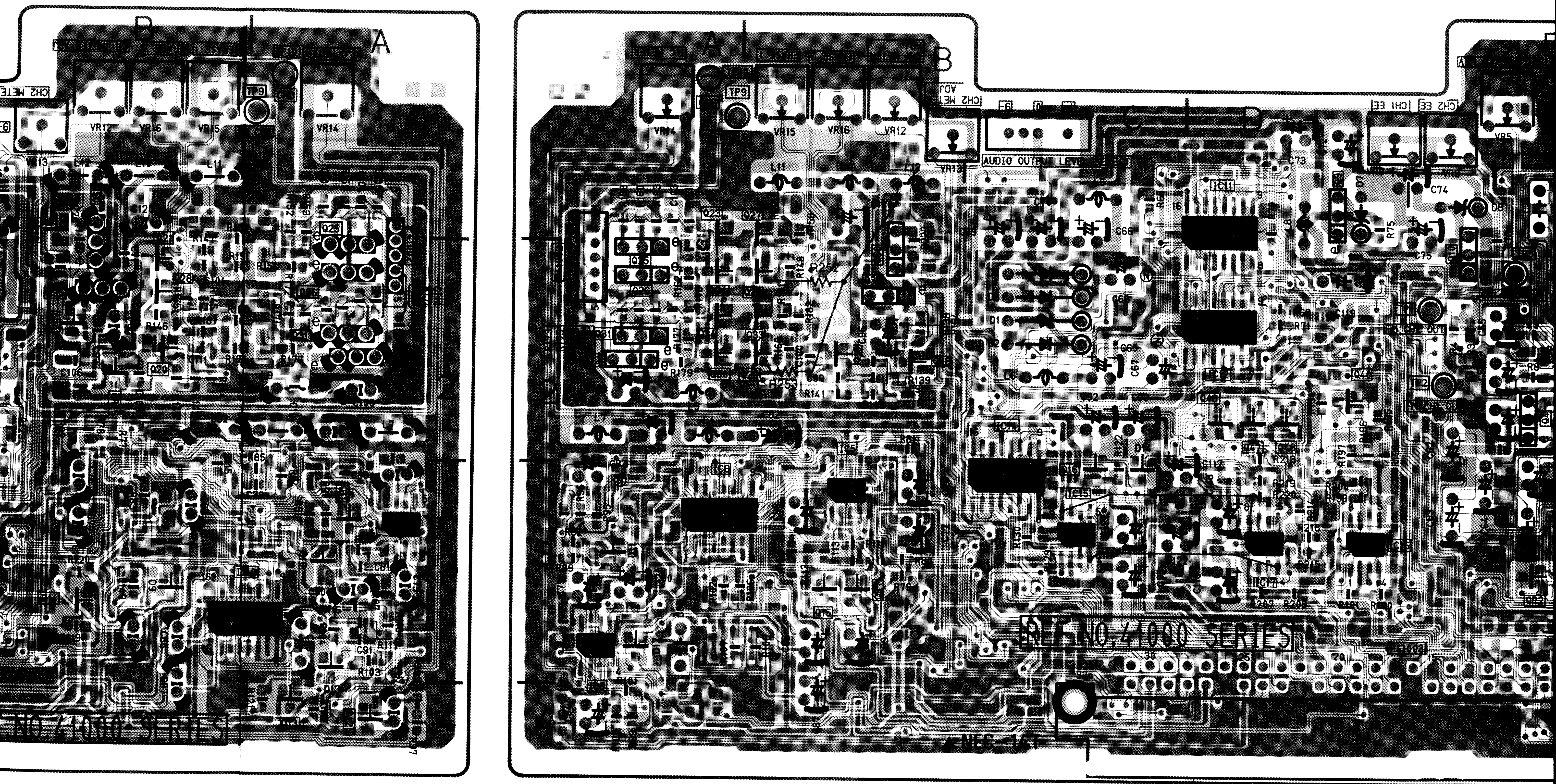
Transistor		
Q40001	G-2	Ⓕ
Q40002	G-1	Ⓕ
Q40003	G-1	Ⓕ
Q40004	G-1	Ⓕ
Q40005	G-2	Ⓕ
Q40006	G-2	Ⓕ
Q40007	G-2	Ⓕ
Q40008	G-3	©
Q40008	G-3	Ⓕ
Q40009	A-2	©
Q40009	A-2	Ⓕ
Q40010	A-2	©
Q40010	A-2	Ⓕ
Q40011	A-1	Ⓕ
Q40012	A-2	©
Q40013	A-2	Ⓕ
Q40014	A-4	Ⓕ
Q40015	A-3	Ⓕ
Q40016	B-3	Ⓕ
Q40017	A-3	Ⓕ
Q40018	A-3	©
Q40018	A-3	Ⓕ
Q40019	A-3	Ⓕ
Q40020	A-2	Ⓕ
Q40021	A-3	©
Q40022	F-1	Ⓕ
Q40023	F-1	Ⓕ
Q40024	F-3	©
Q40025	C-2	Ⓕ
Q40026	C-1	Ⓕ
Q40027	D-1	Ⓕ
Q40028	C-1	Ⓕ
Q40029	D-2	Ⓕ
Q40030	D-2	Ⓕ
Q40031	E-2	Ⓕ
Q40032	E-3	©
Q40032	E-3	Ⓕ
Q40033	A-2	Ⓕ
Q40034	A-2	©
Q40035	B-2	©
Q40035	B-2	Ⓕ
Q40036	B-2	©
Q40036	A-2	Ⓕ
Q40037	B-3	Ⓕ
Q40038	A-3	Ⓕ
Q40039	A-3	Ⓕ
Q40040	B-3	Ⓕ
Q40041	D-2	Ⓕ
Q40042	C-2	Ⓕ
Q40043	D-2	Ⓕ
Q40044	B-2	Ⓕ
Q40045	C-3	©
Q40046	C-2	Ⓕ
Q40047	E-2	Ⓕ
Q40048	E-2	©
Q40049	B-3	©
Q40049	B-3	Ⓕ
Transistor & Resistor		
QR40001	G-2	Ⓕ
QR40002	G-2	Ⓕ
QR40003	G-1	©
QR40004	G-2	©
QR40005	G-2	©
QR40006	G-1	Ⓕ
QR40007	D-3	©
QR40008	F-3	Ⓕ
QR40009	F-3	Ⓕ
QR40010	F-3	©
QR40011	F-3	©
QR40012	G-2	©
QR40013	G-1	Ⓕ
QR40014	F-1	Ⓕ
QR40015	E-1	Ⓕ
QR40016	D-1	Ⓕ
QR40017	E-1	©
QR40018	D-1	©
QR40019	D-2	©
QR40020	C-3	Ⓕ
QR40021	C-3	Ⓕ
QR40022	D-3	©
QR40023	C-3	©
QR40024	E-2	©
QR40025	B-2	Ⓕ
QR40026	C-2	Ⓕ
QR40027	C-1	Ⓕ
QR40028	C-2	©
QR40029	E-3	Ⓕ
QR40030	E-2	Ⓕ
QR40031	E-2	Ⓕ
QR40032	E-2	Ⓕ
Integrated Circuit		
IC40001	F-2	©
IC40001	F-2	Ⓕ
IC40002	F-3	©
IC40002	F-3	Ⓕ
IC40003	D-2	©
IC40003	D-2	Ⓕ
IC40004	D-3	©
IC40004	D-3	Ⓕ
IC40005	B-1	©
IC40006	C-2	©
IC40006	C-2	Ⓕ
IC40007	B-3	©
IC40007	B-3	Ⓕ
IC40008	B-2	©
IC40008	B-2	Ⓕ
IC40009	C-2	©
IC40010	C-3	©
IC40011	C-3	©
IC40012	C-3	©
IC40013	C-3	Ⓕ
IC40014	C-3	Ⓕ
IC40015	C-3	Ⓕ
IC40016	E-3	©
IC40017	E-2	©
IC40018	E-2	Ⓕ
IC40019	E-3	Ⓕ
IC40020	E-1	©
IC40020	E-1	Ⓕ
IC40021	B-2	Ⓕ
Test Point		
TL40001	A-2	©
TL40001	A-2	Ⓕ
TL40002	A-3	©
TL40002	A-3	Ⓕ
TL40003	A-3	©
TL40003	A-3	Ⓕ
TL40004	B-3	©
TL40004	B-3	Ⓕ
TL40005	B-2	©
TL40005	B-2	Ⓕ
TP40001	B-3	©
TP40001	B-3	Ⓕ
TP40002	A-3	©
TP40002	A-3	Ⓕ
TP40003	B-1	©
TP40003	B-1	Ⓕ
TP40004	B-3	©
TP40004	B-3	Ⓕ
TP40005	G-1	©
TP40005	G-1	Ⓕ
TP40006	C-1	©
TP40006	C-1	Ⓕ
TP40007	E-1	©
TP40007	E-1	Ⓕ
TP40008	B-1	©
TP40008	B-1	Ⓕ
TPG40001	C-1	©
TPG40001	C-1	Ⓕ
TPG40002	F-3	©
TPG40002	F-3	Ⓕ
Adjustment		
VR40002	F-1	©
VR40002	F-1	Ⓕ
VR40003	F-1	©
VR40003	F-1	Ⓕ
VR40004	A-1	©
VR40004	A-1	Ⓕ
VR40005	E-1	©
VR40005	E-1	Ⓕ
VR40007	D-1	©
VR40007	D-1	Ⓕ
VR40008	D-1	©
VR40008	D-1	Ⓕ
VR40009	A-1	©
VR40009	A-1	Ⓕ
VR40010	D-1	©
VR40010	D-1	Ⓕ
VR40011	E-1	©
VR40011	E-1	Ⓕ
VR40012	E-1	©
VR40012	E-1	Ⓕ
Connector		
P40001	A-1	©
P40001	A-1	Ⓕ
P40002	F-1	©
P40002	G-1	Ⓕ
P40003	C-1	©
P40003	C-1	Ⓕ
P40004	D-3	©
P40004	E-3	Ⓕ

ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE

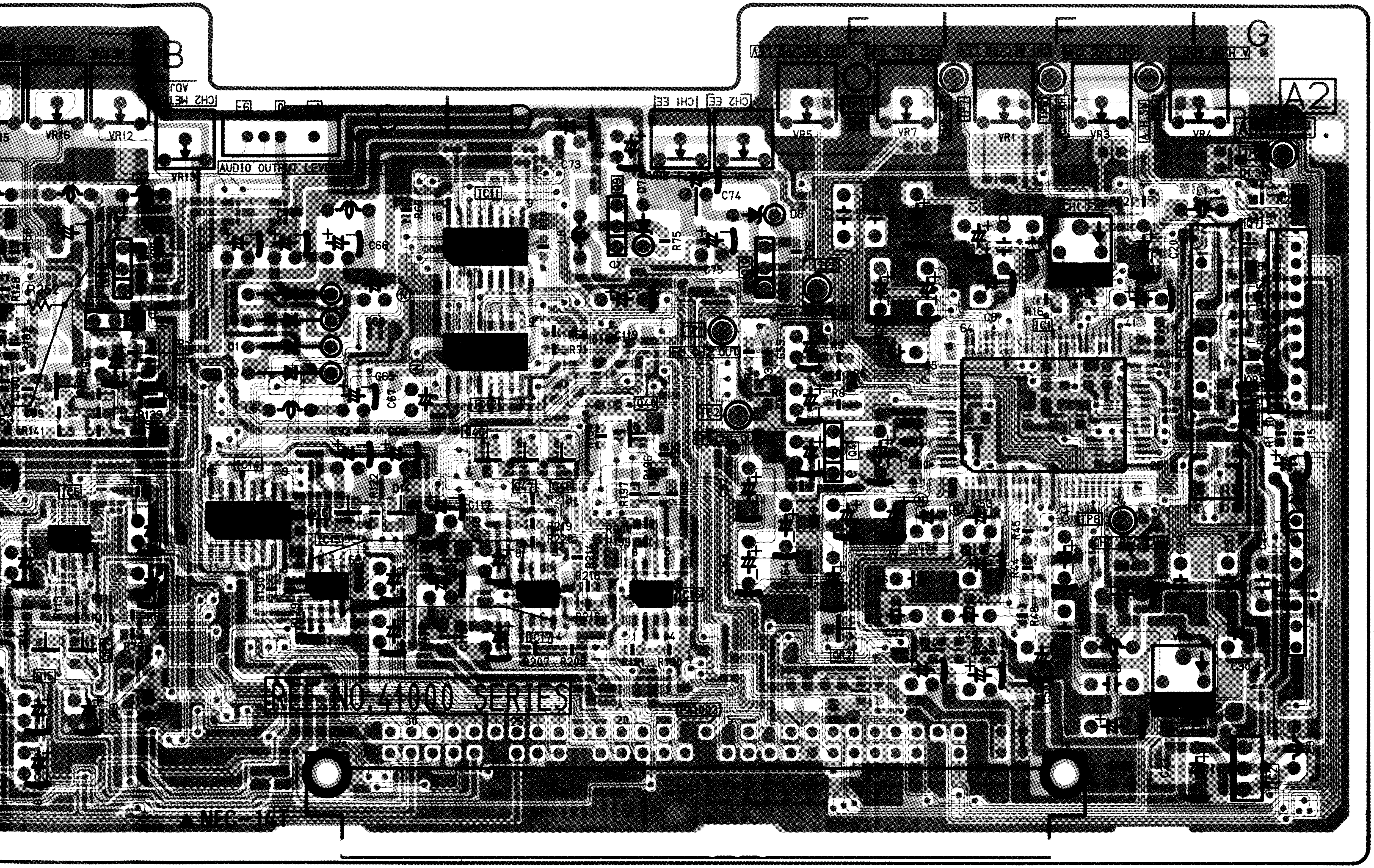
AUDIO (2) C.B.A. (E8)


A2
AUDIO 2
G
F
E
B
A
VR4
VR3
VR1
VR7
VR5
VR9
VR8
VR2
VR6
VR13
VR12
VR16
VR15
VR14
CH2 METER ADJ
SW1
AUDIO OUTPUT LEVEL SELECT
TP3
TP9
TP10
IC1
IC3
IC4
IC5
IC13
NJB04421
VEP0442
REF.NO.41000 SERIES

(FOIL SIDE)


B
A
C
D
CH2 METER ADJ
CH1 METER ADJ
ERASE 1
ERASE 2
T.C METER
TP9
TP10
VR12
VR13
VR14
VR15
VR16
VR5
AUDIO OUTPUT LEVEL ADJUST
CH1 EE
CH2 EE
L7
L11
L12
IC11
IC15
IC16
IC17
Q25
Q26
Q15
REF. NO. 41000 SERIES
NEC-14T
1
2
3
4

(FOIL SIDE)



(COMPONENT SIDE)

AUDIO (2) C.B.A.

Transistor

Q41001	G-2	Ⓕ
Q41002	E-2	Ⓕ
Q41003	E-2	Ⓕ
Q41003	F-2	Ⓕ
Q41004	E-2	©
Q41004	E-2	Ⓕ
Q41005	E-2	Ⓕ
Q41006	G-2	Ⓕ
Q41007	G-1	©
Q41008	D-2	Ⓕ
Q41009	D-1	©
Q41009	D-1	Ⓕ
Q41010	E-2	©
Q41010	E-2	Ⓕ
Q41011	A-3	Ⓕ
Q41012	A-4	Ⓕ
Q41013	A-4	Ⓕ
Q41014	B-3	Ⓕ
Q41015	B-3	©
Q41016	C-3	©
Q41017	C-3	Ⓕ
Q41018	C-3	Ⓕ
Q41019	B-2	©
Q41020	B-2	Ⓕ
Q41021	B-2	Ⓕ
Q41022	B-2	©
Q41023	A-1	©
Q41024	A-2	©
Q41025	A-2	©
Q41025	A-2	Ⓕ
Q41026	A-2	©
Q41026	A-2	Ⓕ
Q41027	B-1	©
Q41028	B-2	Ⓕ
Q41029	B-2	©
Q41030	A-2	©
Q41031	A-2	©
Q41031	A-2	Ⓕ
Q41032	A-2	©
Q41032	A-2	Ⓕ
Q41033	B-2	©
Q41034	A-2	©
Q41035	B-2	©
Q41035	B-2	Ⓕ
Q41036	D-3	Ⓕ
Q41037	D-3	Ⓕ
Q41038	D-3	Ⓕ
Q41039	D-3	Ⓕ
Q41040	D-2	©
Q41041	D-2	Ⓕ
Q41042	D-2	Ⓕ
Q41043	D-3	Ⓕ
Q41044	D-3	Ⓕ
Q41045	D-2	Ⓕ
Q41046	D-2	©
Q41047	D-2	©
Q41048	D-2	©
Q41049	D-3	Ⓕ
Q41050	B-2	©
Q41050	B-1	Ⓕ
Q41051	E-3	Ⓕ
Q41052	E-3	Ⓕ
Q41053	E-3	Ⓕ

Transistor & Resistor

QR41001	G-1	Ⓕ
QR41002	E-3	©
QR41004	G-3	Ⓕ
QR41005	G-2	©
QR41006	D-2	Ⓕ
QR41007	B-3	©
QR41008	B-2	©
QR41009	B-2	Ⓕ
QR41010	B-1	Ⓕ
QR41011	B-2	Ⓕ
QR41012	G-1	Ⓕ

Integrated Circuit

IC41001	F-2	©
IC41002	G-4	©
IC41002	G-4	Ⓕ
IC41003	G-3	©
IC41003	G-3	Ⓕ
IC41004	D-2	Ⓕ
IC41005	B-3	©
IC41006	A-3	©
IC41007	C-2	Ⓕ
IC41008	A-3	©
IC41009	A-3	Ⓕ
IC41010	A-3	Ⓕ
IC41011	D-1	©
IC41012	D-2	©
IC41013	D-1	Ⓕ
IC41014	C-3	©
IC41015	C-3	©
IC41016	D-3	©
IC41017	D-3	©

Test Point

TP41001	E-2	©
TP41001	E-2	Ⓕ
TP41002	E-2	©
TP41002	E-2	Ⓕ
TP41003	G-1	©
TP41003	G-1	Ⓕ
TP41004	F-1	©
TP41004	F-1	Ⓕ
TP41005	E-2	©
TP41005	E-2	Ⓕ
TP41006	F-1	©
TP41006	F-1	Ⓕ
TP41007	F-1	©
TP41007	F-1	Ⓕ
TP41008	F-3	©
TP41008	F-3	Ⓕ
TP41009	A-1	©
TP41009	A-1	Ⓕ
TP41010	A-1	©
TP41010	A-1	Ⓕ
TPG40001	E-1	©
TPG40001	E-1	Ⓕ

Adjustment

VR41001	F-1	©
VR41001	F-1	Ⓕ
VR41002	F-2	©
VR41002	F-1	Ⓕ
VR41003	F-1	©
VR41003	F-1	Ⓕ
VR41004	G-1	©
VR41004	F-1	Ⓕ
VR41005	E-1	©
VR41005	E-1	Ⓕ
VR41006	F-3	©
VR41006	F-3	Ⓕ
VR41007	E-1	©
VR41007	E-1	Ⓕ
VR41008	D-1	©
VR41008	D-1	Ⓕ
VR41009	E-1	©
VR41009	E-1	Ⓕ
VR41012	B-1	©
VR41012	B-1	Ⓕ
VR41013	B-1	©
VR41013	B-1	Ⓕ
VR41014	A-1	©
VR41014	A-1	Ⓕ
VR41015	B-1	©
VR41015	B-1	Ⓕ
VR41016	B-1	©
VR41016	B-1	Ⓕ

Connector

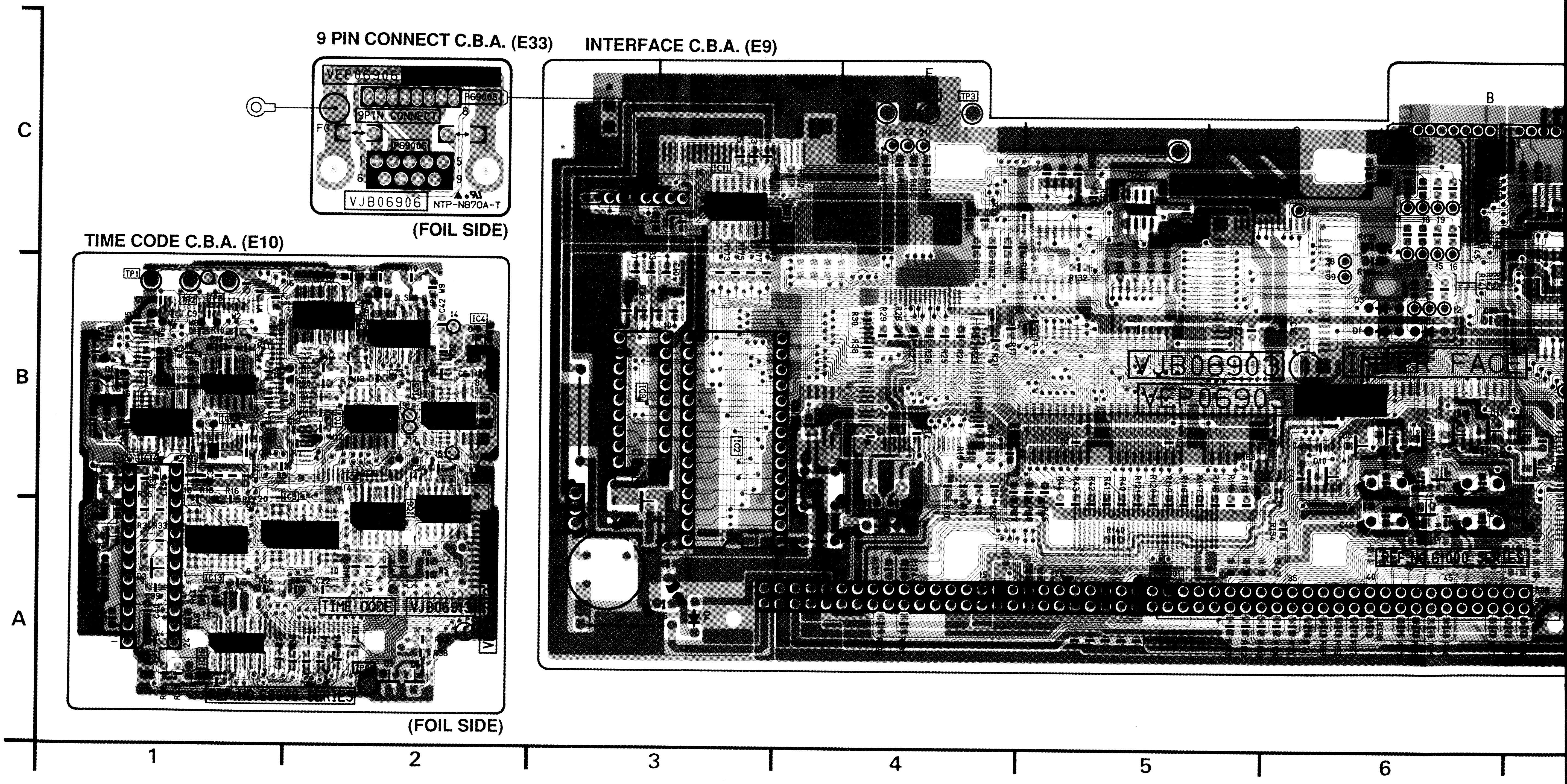
P41001	G-2	©
P41001	D-3	Ⓕ
P41002	A-2	©
P41002	A-2	Ⓕ
P41003	D-3	©
P41003	D-3	Ⓕ

ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE

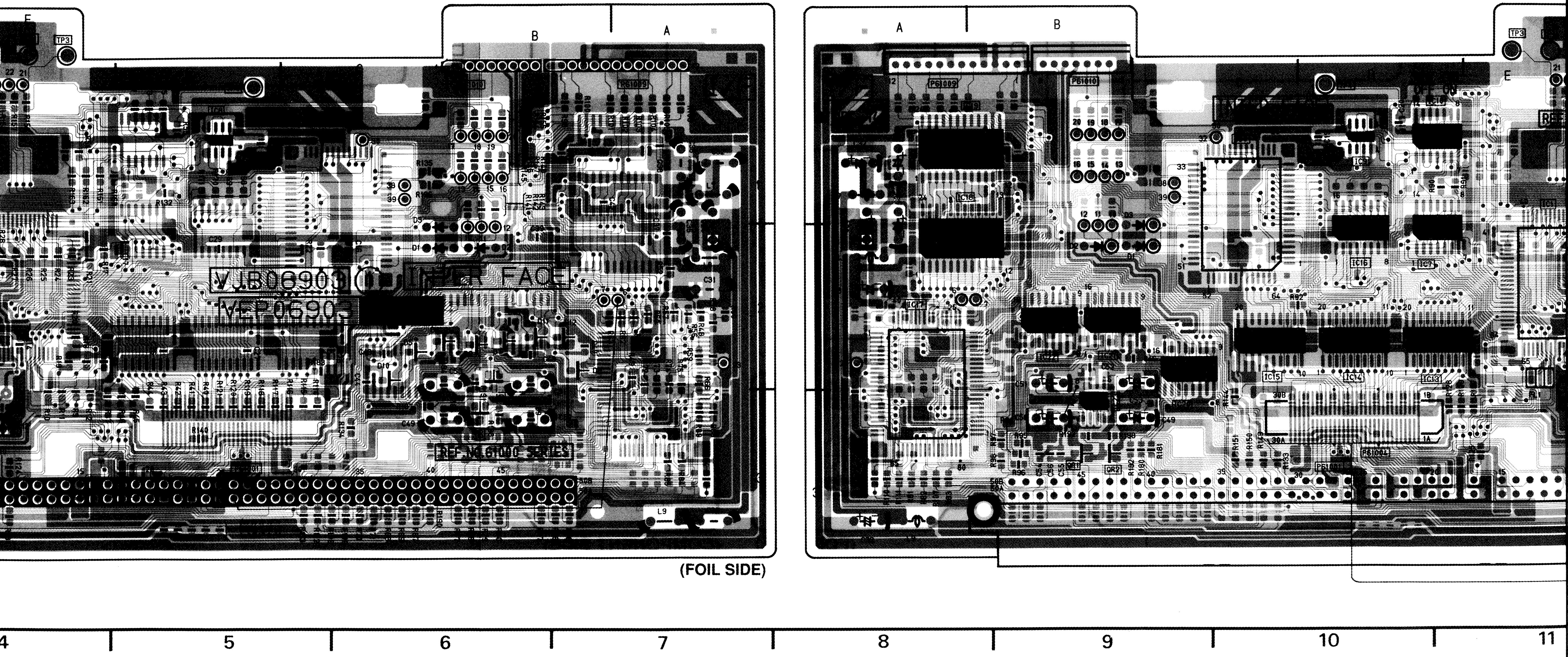
INTERFACE C.B.A. (E9), TIME CODE C.B.A. (E10) AND 9 PIN CONNECT C.B.A. (E33)

9 PIN CONNECT C.B.A.	
Connector	
P69005 P69006	C-2 C-2

ADDRESS INFORMATION


9 PIN CONNECT C.B.A. (E33)
INTERFACE C.B.A. (E9)
TIME CODE C.B.A. (E10)
(FOIL SIDE)
(FOIL SIDE)
VEP06906
P69005
9PIN CONNECT
P69006
FG
VJB06906
NTP-N870A-T
TP1
TP3
IC4
IC13
IC14
TIME CODE
VJB06903
VEP06903
D1
D3
D4
C29
C49
R132
R140
A
B
C
1
2
3
4
5
6

E33)


E
TP3
B
A
P61009
P61010
IC18
IC17
IC16
IC15
IC14
IC13
VJB06903
INTERFACE
VEP0690
REF.NO.61000 SERIES
L9
C31
C49
R135
R139
R140
D1
D2
D3
D10
4
5
6
7
8
9
10
11

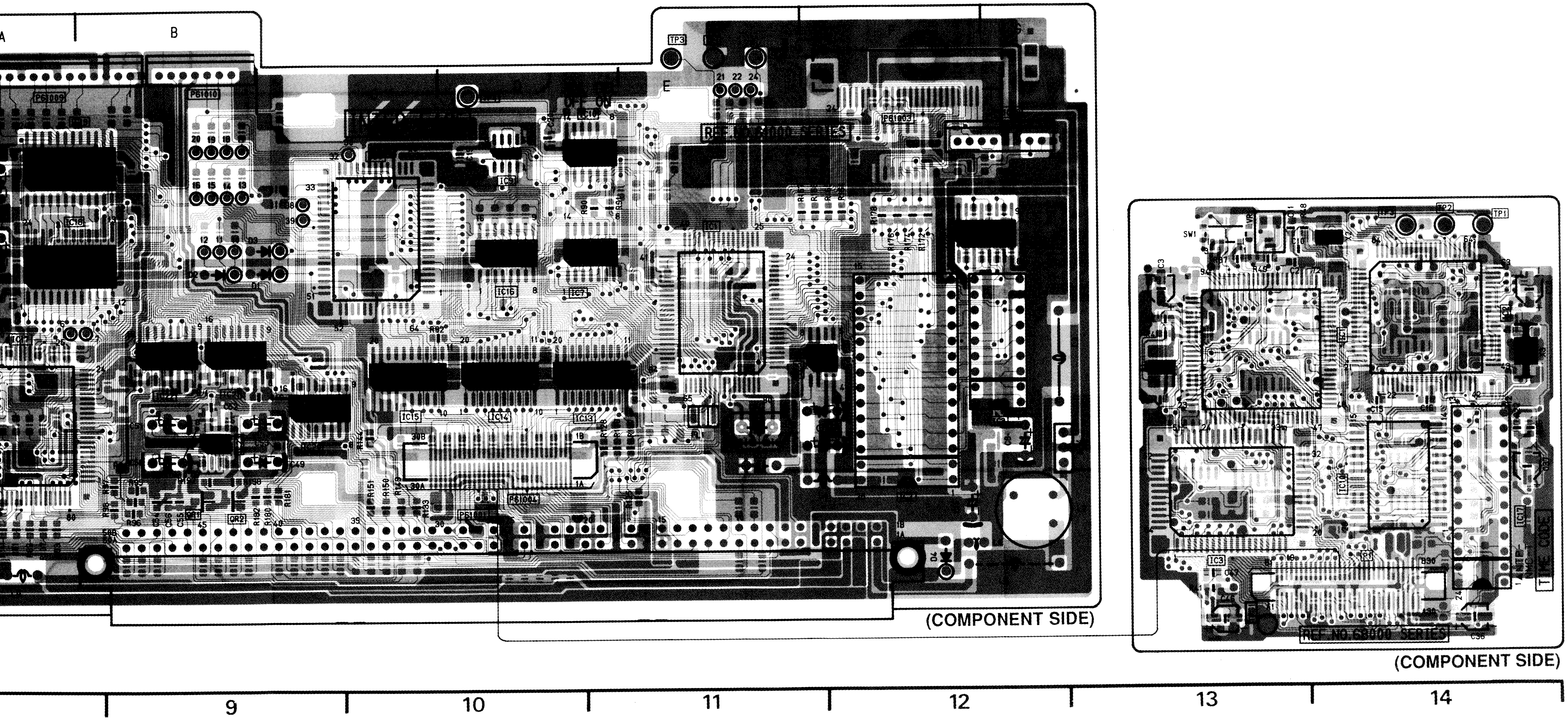
(FOIL SIDE)

INTERFACE C.B.A.	
Transistor	
Q61001	A-3
Q61002	A-6
Q61003	A-6
Transistor & Resistor	
QR61001	A-9
QR61002	A-9
Integrated Circuit	
IC61001	B-11
IC61002	A-3
IC61002	A-12
IC61003	A-3
IC61003	A-12
IC61004	C-10
IC61005	B-11
IC61006	B-12
IC61007	B-11
IC61008	C-5
IC61009	B-10
IC61010	C-10
IC61011	C-3
IC61013	B-10
IC61014	B-10
IC61015	B-10
IC61016	B-10
IC61017	B-8
IC61018	B-8
IC61019	C-8
IC61020	A-9
IC61021	B-9
IC61022	B-9
IC61023	A-9
Test Point	
TP61001	C-4
TP61001	C-11
TP61002	C-4
TP61002	C-11
TP61003	C-4
TP61003	C-11
TP61004	C-5
TP61004	C-10
Connector	
P61001	A-5
P61001	A-10
P61002	C-3
P61002	C-12
P61003	C-12
P61004	A-10
P61009	C-7
P61009	C-8
P61010	C-6
P61010	C-9

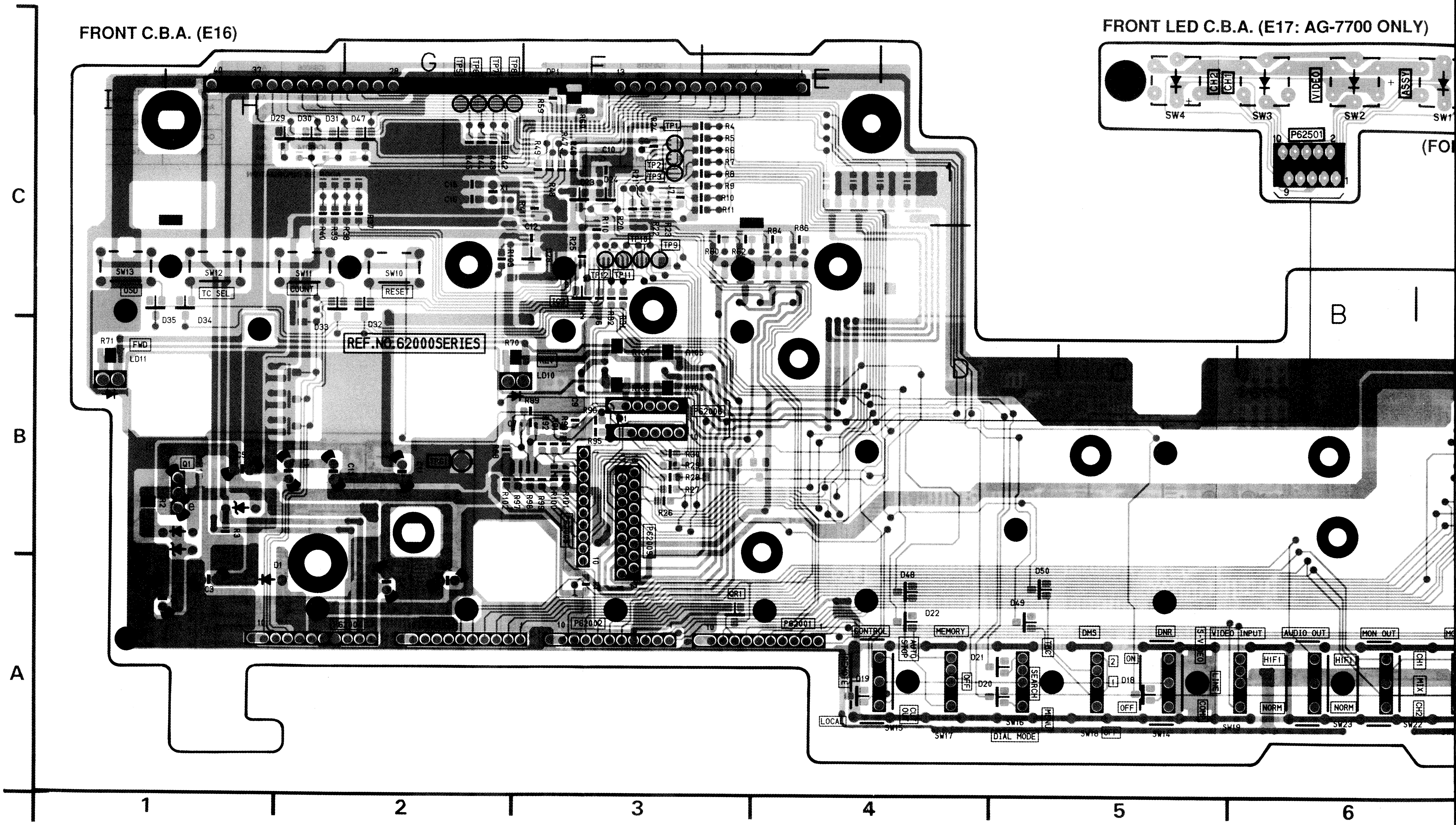
ADDRESS INFORMATION

TIME CODE C.B.A.	
Transistor	
Q68001	B-1
Integrated Circuit	
IC68001	B-14
IC68002	B-14
IC68003	A-13
IC68004	B-2
IC68005	B-2
IC68006	A-2
IC68007	B-2
IC68008	A-2
IC68009	A-2
IC68010	A-14
IC68011	B-2
IC68012	B-1
IC68013	A-1
IC68014	B-1
IC68015	B-2
IC68016	A-1
IC68017	A-1
IC68017	A-14
Test Point	
TP68001	B-1
TP68001	B-14
TP68002	B-1
TP68002	B-14
TP68003	B-1
TP68003	B-14
TPG68001	A-2
TPG68001	A-13
Adjustment	
VR68001	B-13
Connector	
P68001	A-14

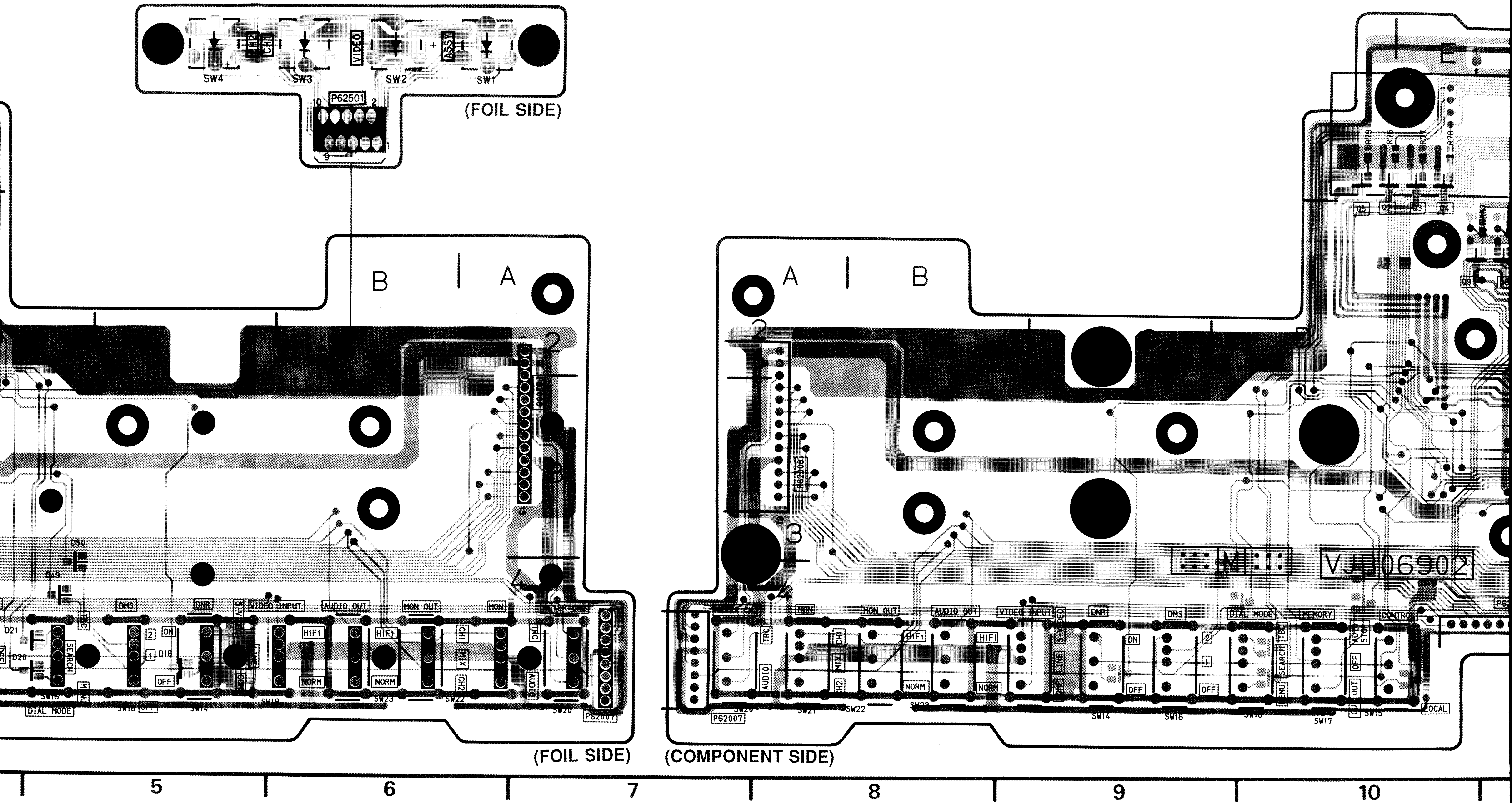
ADDRESS INFORMATION

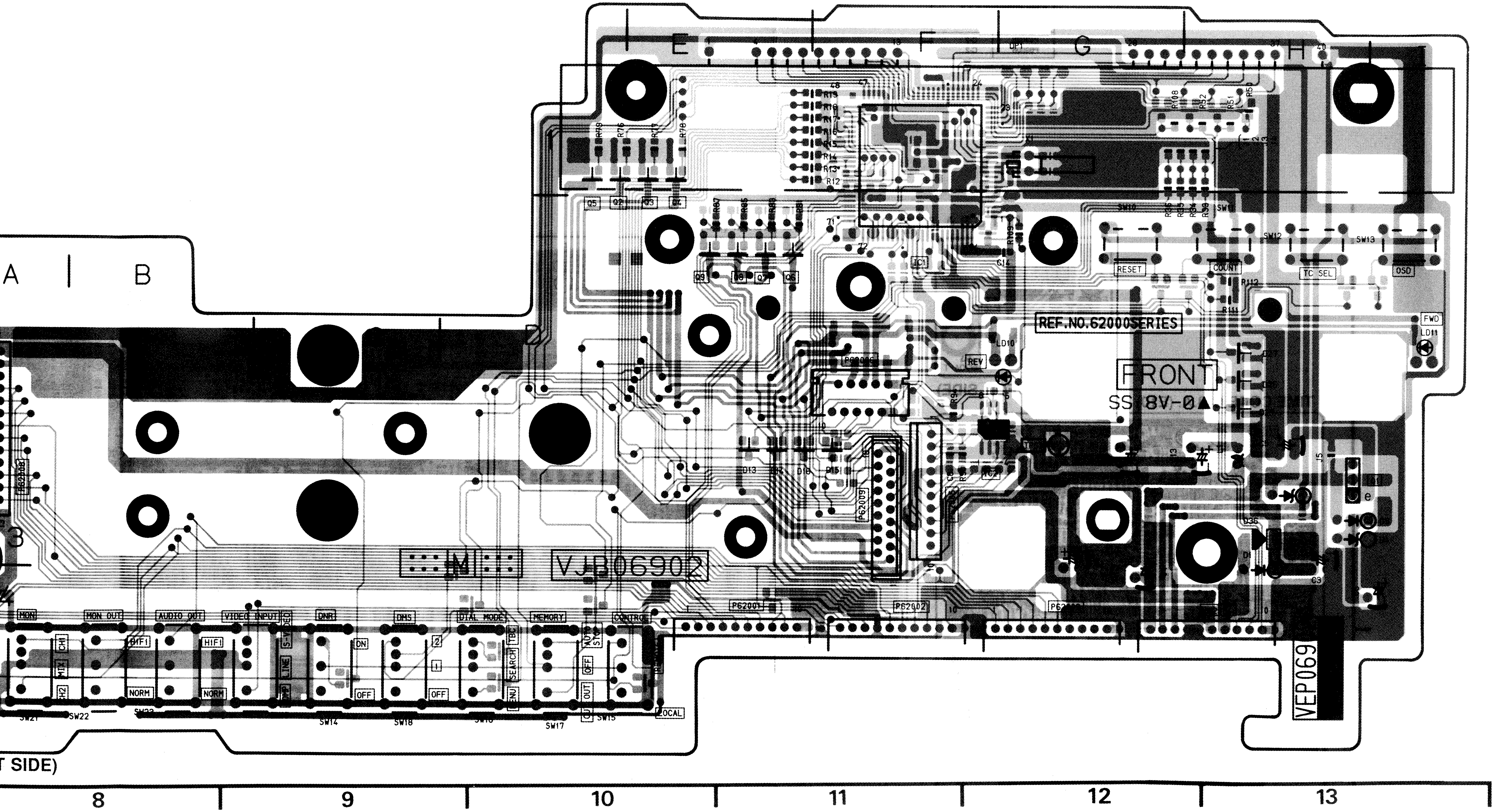

A
B
TP3
E
P61009
P61010
P61003
IC18
IC5
IC16
IC7
IC1
IC15
IC14
IC13
P61004
REF NO.61000 SERIES
(COMPONENT SIDE)
SW1
TP1
TP2
IC3
REF NO.68000 SERIES
TIME CODE
(COMPONENT SIDE)
9
10
11
12
13
14

FRONT C.B.A. (E16) AND FRONT LED C.B.A. (E17: AG-7700 ONLY)


FRONT C.B.A. (E16)
FRONT LED C.B.A. (E17: AG-7700 ONLY)
REF.NO.62000SERIES
SW13
OSD
SW12
TC SEL
SW11
COUNT
SW10
RESET
FWD
LD11
LD10
SW4
SW3
SW2
SW1
CH2
CH1
VIDEO
ASSY
P62501
P62009
P62002
P62001
CONTROL
MEMORY
DMS
DNR
VIDEO INPUT
AUDIO OUT
MON OUT
AUTO STOP
SEARCH
DIAL MODE
LOCAL
REMOTE
OFF
ON
HIFI
NORM
MIX
LINE
COMP
S-VIDEO
SW15
SW17
SW16
SW18
SW14
SW19
SW23
SW22
C
B
A
1
2
3
4
5
6

FRONT LED C.B.A. (E17: AG-7700 ONLY)


SW4
SW3
SW2
SW1
CH2
CH1
VIDEO
ASSY
P62501
10
2
9
1
(FOIL SIDE)
B
A
2
3
4
P62008
13
D50
D49
D21
D20
D18
DMS
DNR
S-VIDEO
VIDEO INPUT
AUDIO OUT
MON OUT
MON
AFTER CH2
SEARCH
2
1
ON
OFF
LINE
COMP
HIFI
NORM
CH1
MIX
CH2
TRC
AUDIO
DIAL MODE
SW16
SW18
SW14
SW19
SW23
SW22
SW20
P62007
(FOIL SIDE)
(COMPONENT SIDE)
A
B
2
3
4
D
E
P62008
R79
R76
R77
R78
Q5
Q2
Q3
Q4
R87
Q9
M
VJB06902
DMS
DIAL MODE
MEMORY
CONTROL
DN
TBC
SEARCH
AUTO STOP
OFF
OUT
SW21
SW17
SW15
LOCAL
5
6
7
8
9
10


A
B
E
F
G
H
Q5
Q2
Q3
Q4
Q9
Q8
Q7
Q6
IC1
RESET
COUNT
TC SEL
OSD
FWD
LD11
LD10
REV
REF.NO.62000SERIES
FRONT
SS-8V-0▲
P62009
P62001
P62002
VJB06902
M
VEP069
MON
MON OUT
AUDIO OUT
VIDEO INPUT
S-VIDEO
DNR
DHS
DIAL MODE
MEMORY
CONTROL
CH1
MIX
CH2
HIFI
NORM
LINE
DN
OFF
TBC
SEARCH
AUTO STOP
OUT
LOCAL
SW21
SW22
SW23
SW14
SW18
SW16
SW17
SW15
SW10
SW11
SW12
SW13
D13
D18
D15
D36
C3
C14
J5
R12
R13
R14
R15
R16
R17
R18
R19
R108
R112
R111
8
9
10
11
12
13

T SIDE)

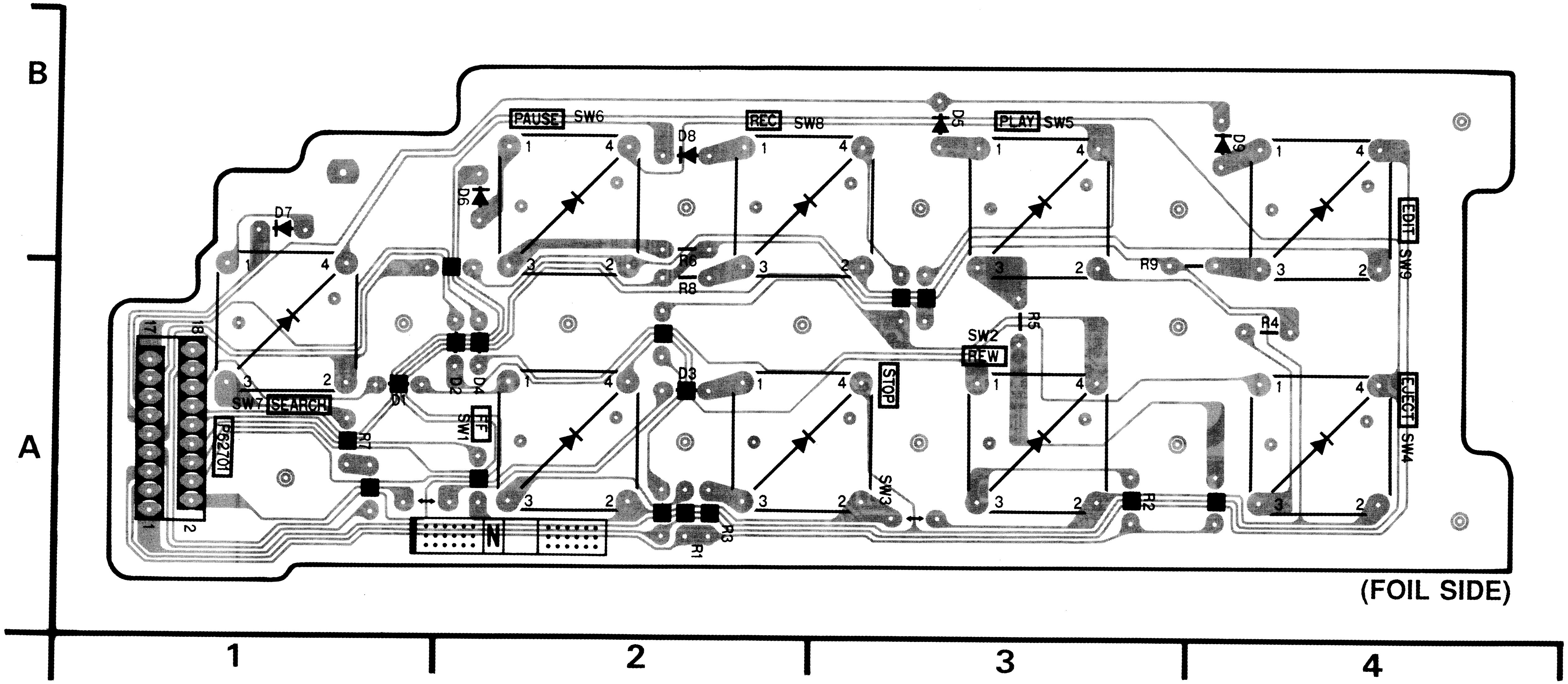
KEYBOARD C.B.A. (E18)

FRONT C.B.A.	
Transistor	
Q62001	B-1
Q62001	B-13
Q62002	C-10
Q62003	C-10
Q62004	C-10
Q62005	C-10
Q62006	C-11
Q62007	C-11
Q62008	C-11
Q62009	C-10
Transistor & Resistor	
QR62001	A-3
Integrated Circuit	
IC62001	C-11
IC62002	B-12
IC62003	C-3
Test Point	
TP62001	C-3
TP62002	C-3
TP62003	C-3
TP62005	C-2
TP62006	C-2
TP62007	C-2
TP62008	C-2
TP62009	C-3
TP62010	C-3
TP62011	C-3
TP62012	C-3
TPG62001	B-2
TPG62001	B-12
Connector	
P62001	A-4
P62001	A-11
P62002	A-3
P62002	A-11
P62003	A-2
P62003	A-12
P62004	A-2
P62004	A-13
P62005	B-3
P62005	B-11
P62006	B-3
P62006	B-11
P62007	A-7
P62007	A-7
P62008	B-7
P62008	B-8
P62009	B-3
P62009	B-11

ADDRESS INFORMATION

KEYBOARD C.B.A.	
Connector	
P62701	A-1

ADDRESS INFORMATION

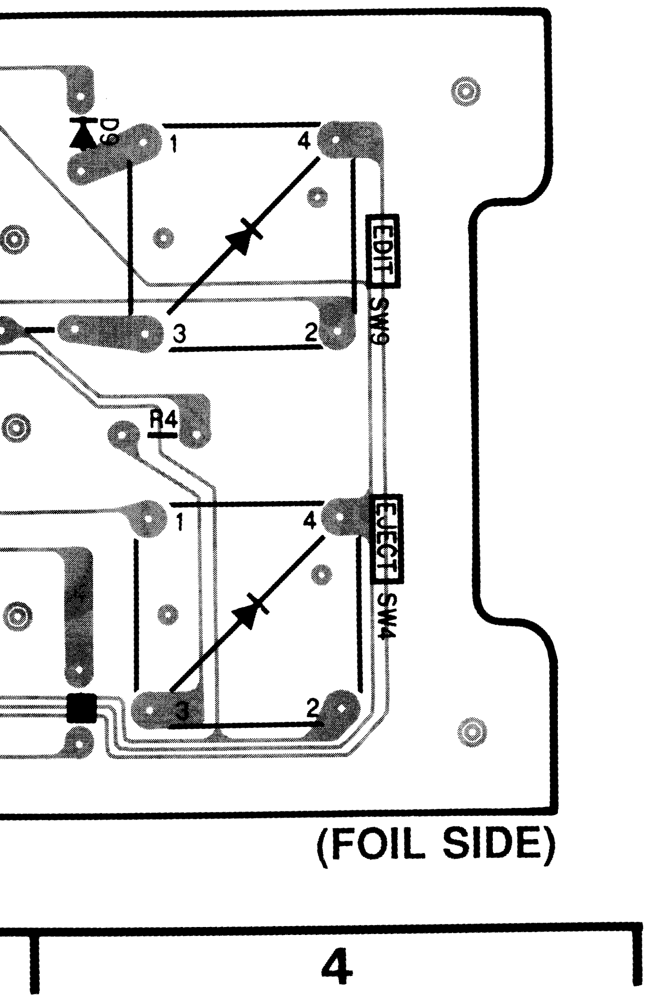


B
A
1
2
3
4
PAUSE
SW6
REC
SW8
PLAY
SW5
D5
D6
D7
D8
D9
EDIT
SW9
R9
R6
R8
R5
R4
SW2
REW
STOP
D3
D1
D2
D4
FF
SW1
SW7
SEARCH
P62701
R7
SW3
EJECT
SW4
R2
R1
R3
17
18
1
2
3
4
N
(FOIL SIDE)

FRONT LED C.B.A.	
Connector	
P62501	C-6

ADDRESS INFORMATION

HEAD AMP C.B.A. (E15)

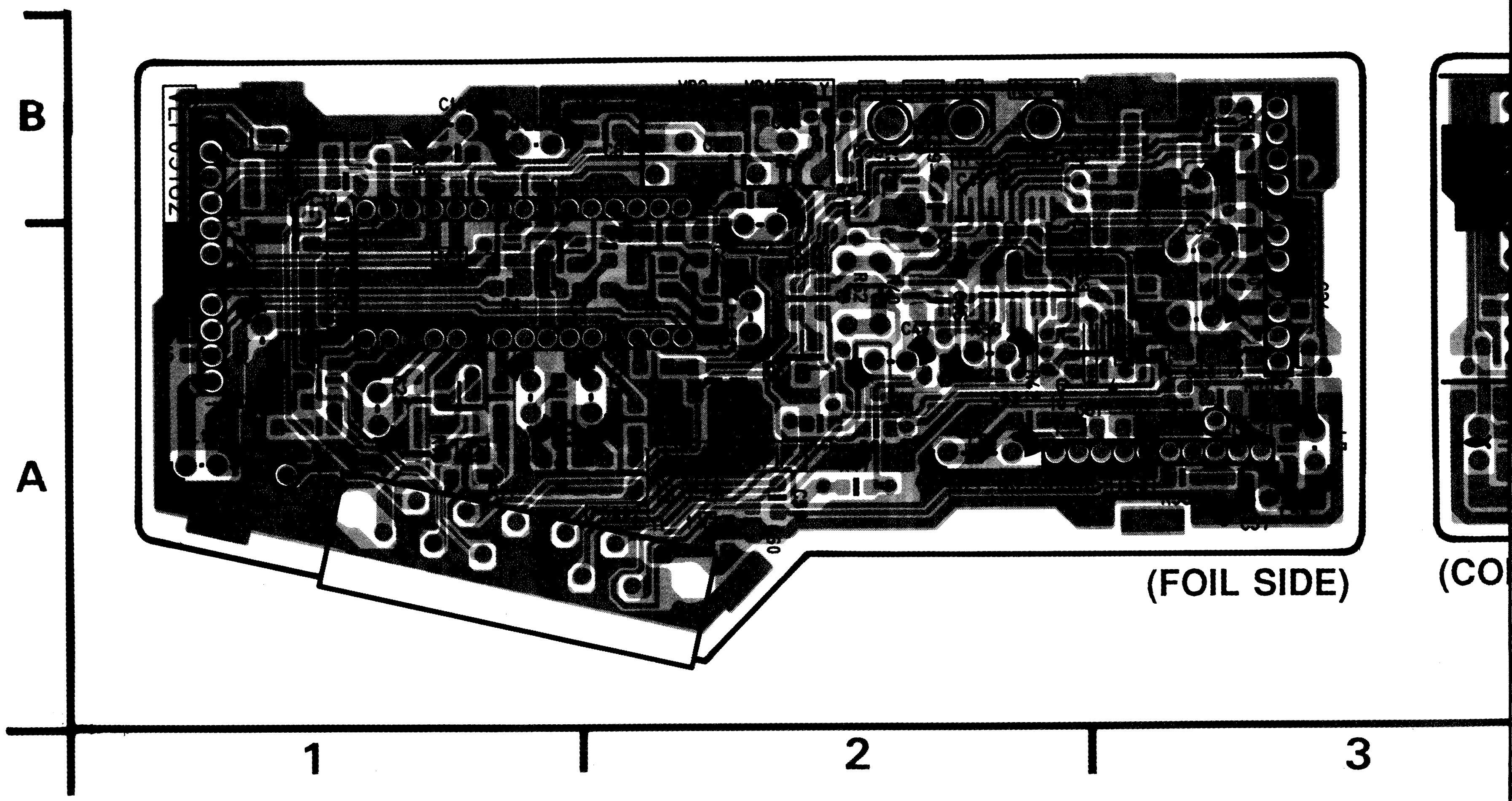

D9
1
4
3
2
EDIT
SW9
R4
1
4
EJECT
SW4
3
2
(FOIL SIDE)
4

KEYBOARD C.B.A.	
Connector	
P62701	A-1

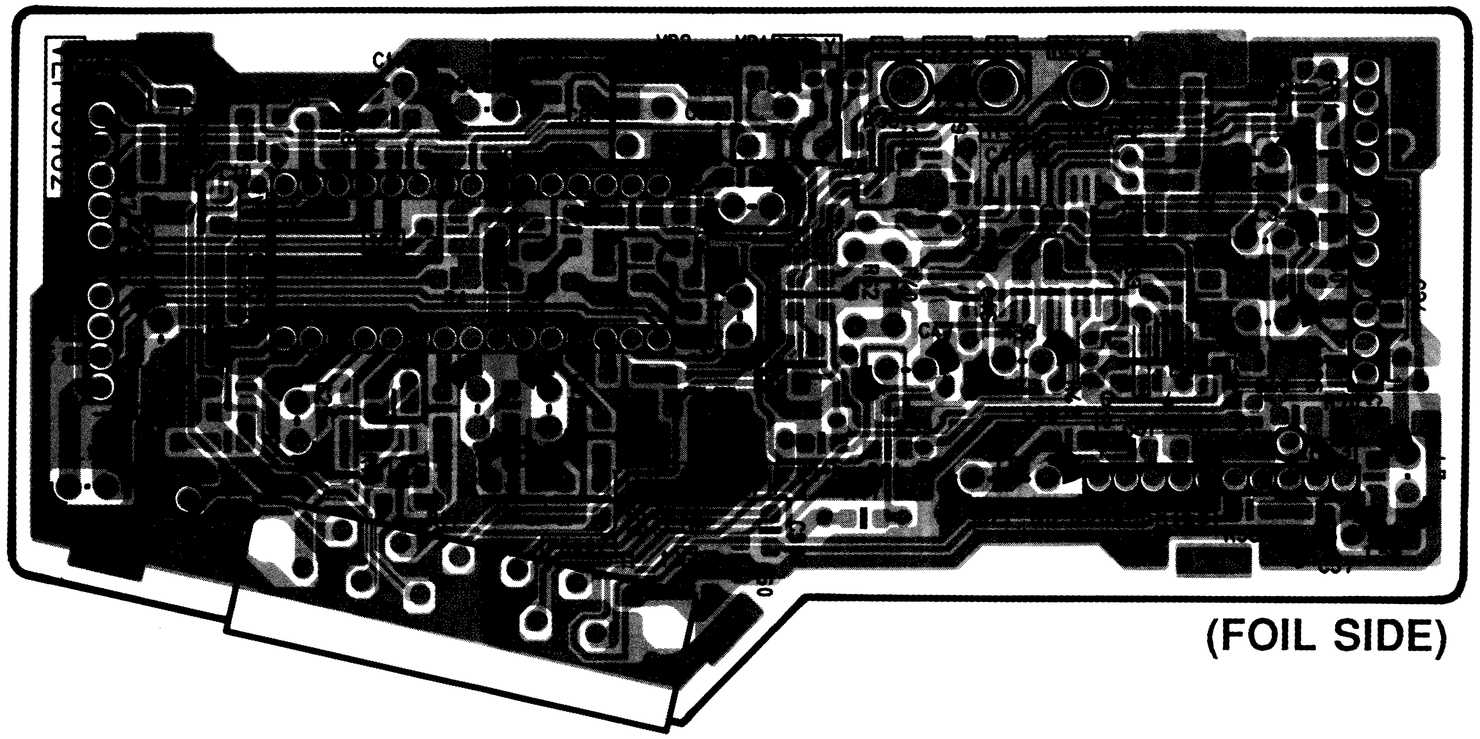
ADDRESS INFORMATION

HEAD AMP C.B.A.	
Transistor	
Q5001 Q5002 Q5003 Q5004 Q5005	A-1 A-1 A-3 A-5 A-2
Transistor & Resistor	
QR5001	B-1
Integrated Circuit	
IC5001 IC5001 IC5002 IC5003 IC5003	A-1 A-5 A-4 A-3 A-4
Test Point	
TP5001 TP5001 TP5002 TP5002 TP5003 TP5003	B-2 B-4 B-2 B-4 B-2 B-4
Adjustment	
VR5001 VR5001 VR5002 VR5002	B-2 B-4 B-2 B-4
Connector	
P5001 P5001 P5002 P5002 P5003 P5003	A-1 A-5 A-2 A-5 A-3 A-3

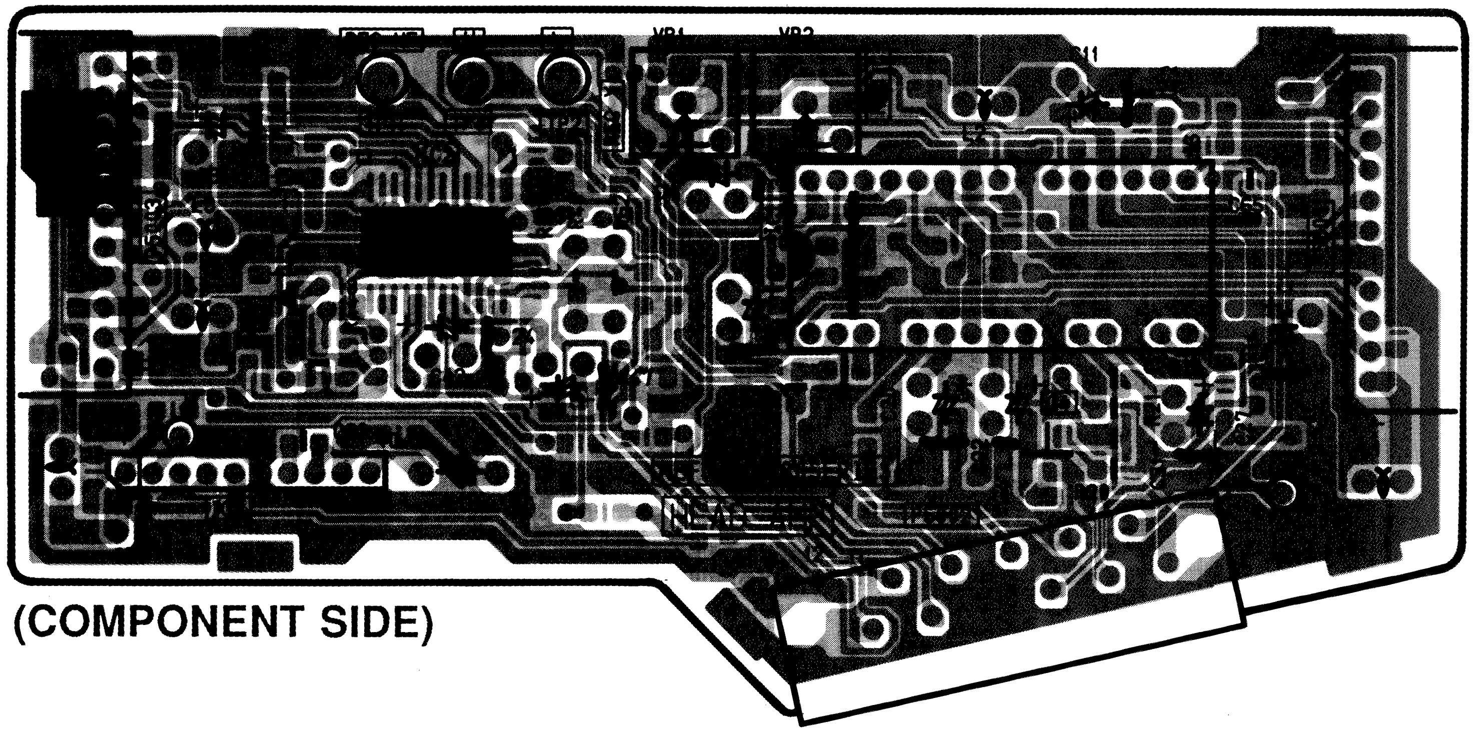
ADDRESS INFORMATION


B
A
(FOIL SIDE)
(CO
1
2
3

AMP C.B.A. (E15)



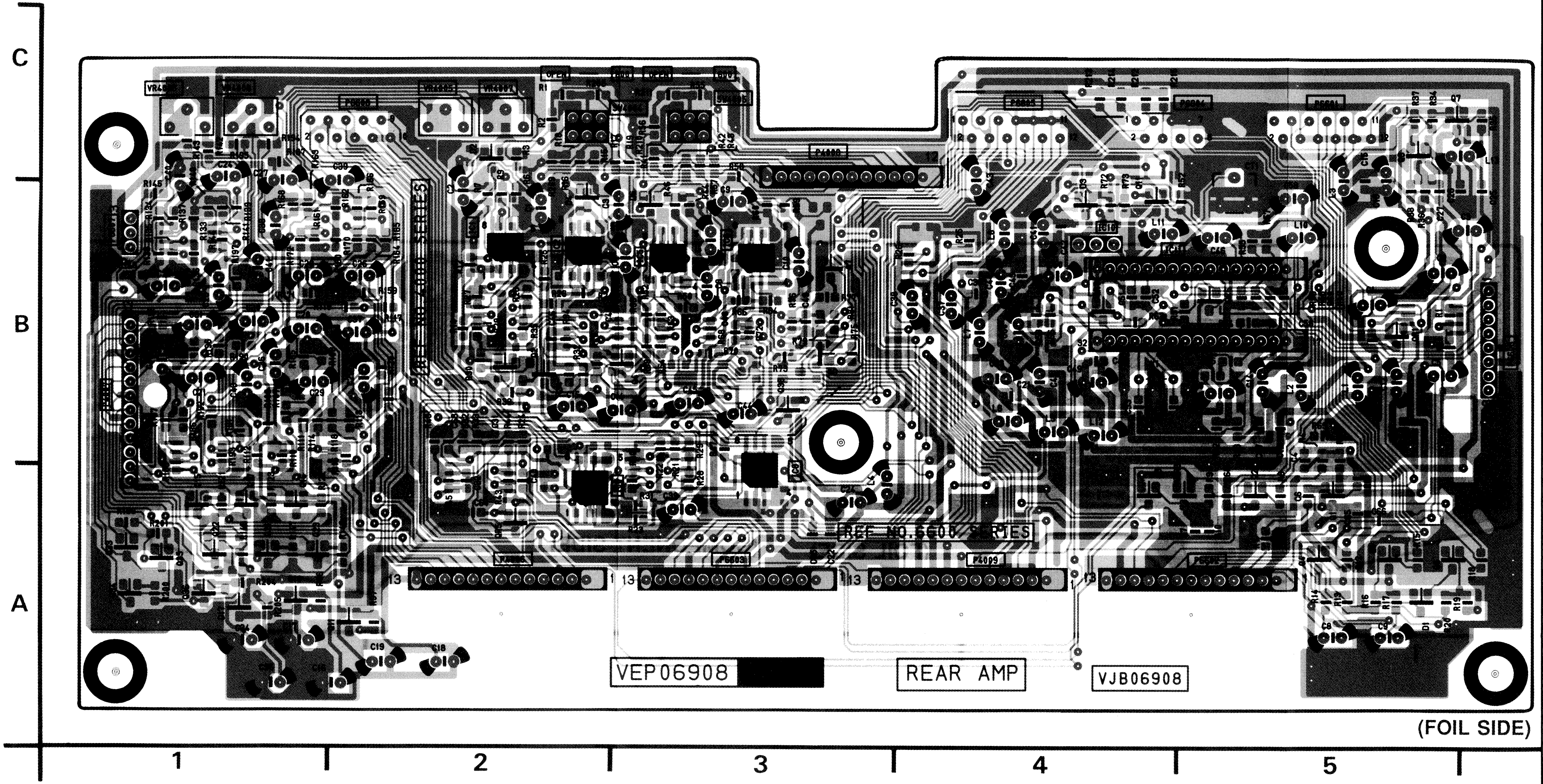
(FOIL SIDE)



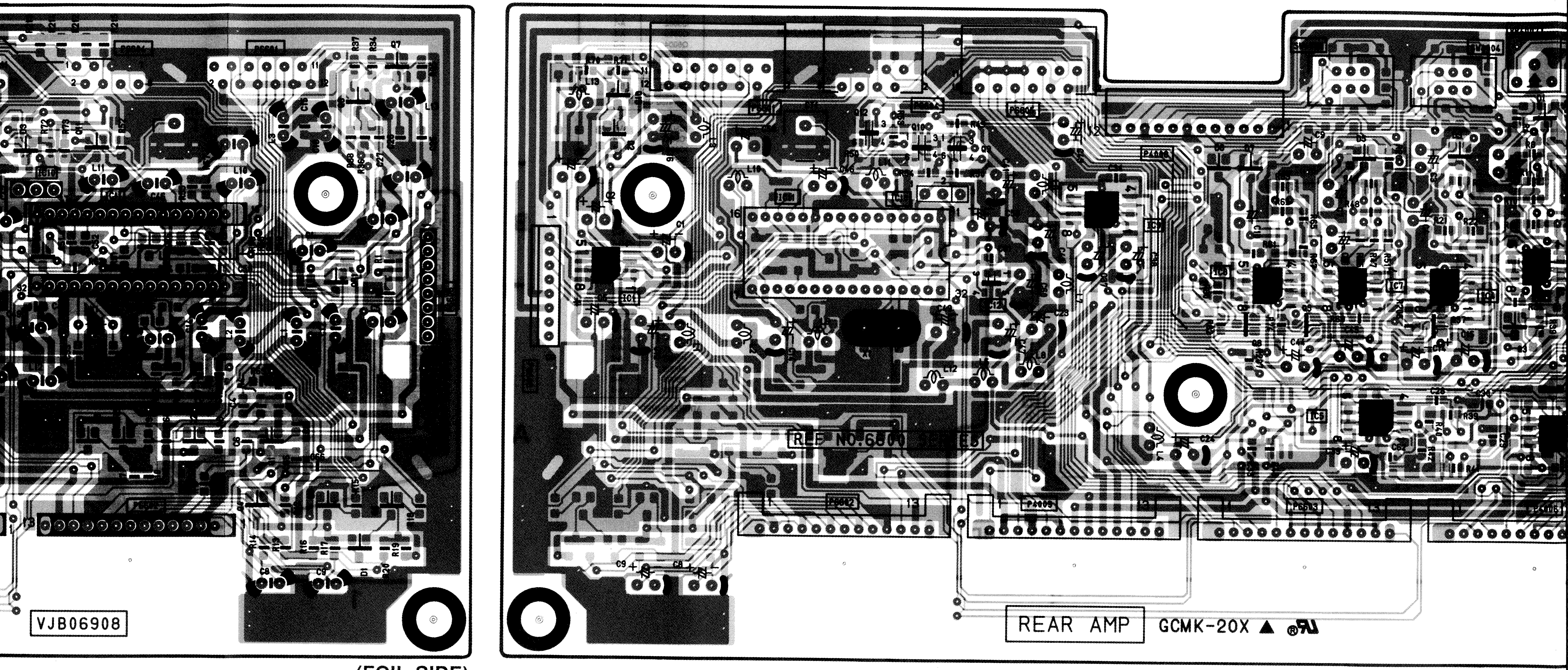
(COMPONENT SIDE)

1 2 3 4 5

REAR AMP C.B.A. (E28)

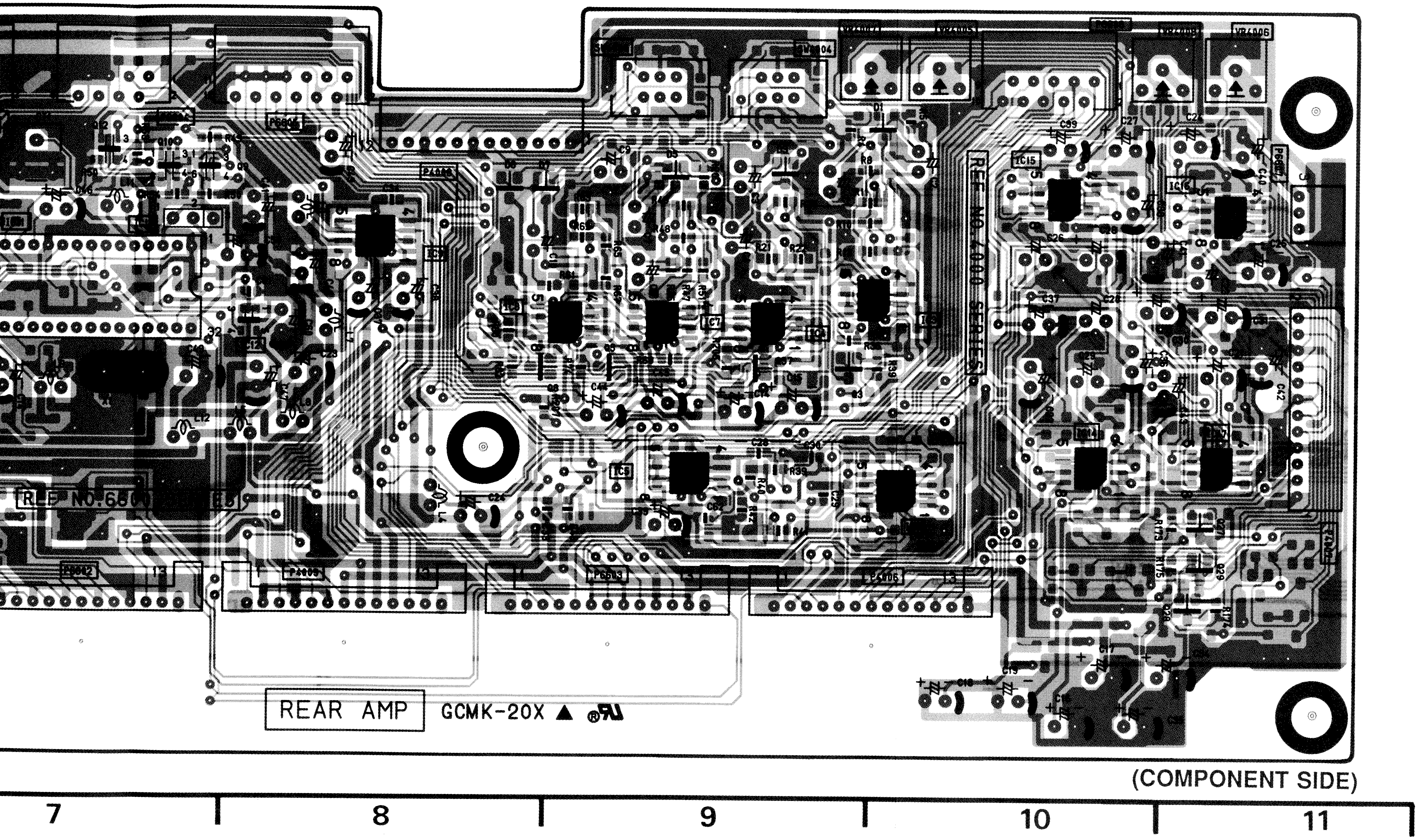

C
B
A
1
2
3
4
5
REF NO.6600 SERIES
VEP06908
REAR AMP
VJB06908

(FOIL SIDE)


VJB06908
REF NO.6800 SERIES
REAR AMP
GCMK-20X ▲

(FOIL SIDE)

5 6 7 8 9



(COMPONENT SIDE)

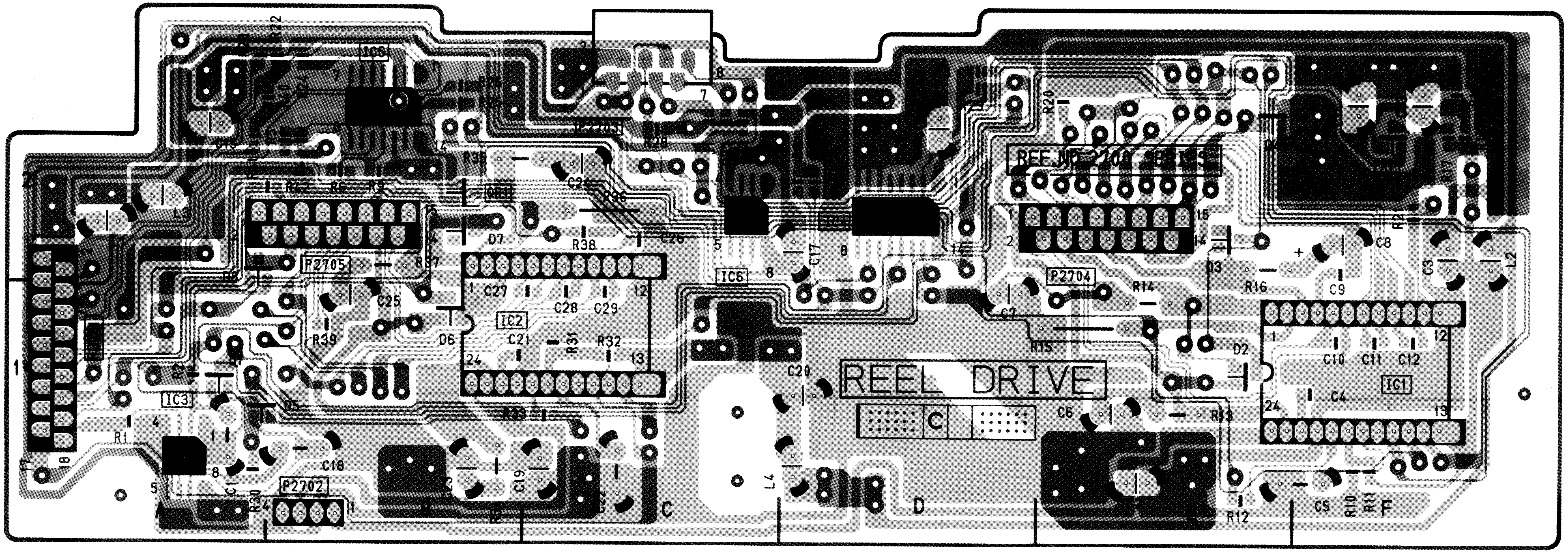
REAR AMP C.B.A.	
Transistor	
Q4001	B-2
Q4002	B-2
Q4003	B-9
Q4004	B-3
Q4005	B-9
Q4006	B-3
Q4007	B-3
Q4008	B-9
Q4010	A-1
Q4011	A-2
Q4015	A-1
Q4016	A-1
Q4017	A-1
Q4021	A-1
Q4022	A-1
Q4023	A-1
Q4027	A-11
Q4028	A-11
Q4029	A-11
Q4033	A-1
Q4034	A-1
Q4035	A-1
Q4036	A-1
Q4037	B-9
Q4038	B-3
Q6601	A-5
Q6602	A-5
Q6603	A-4
Q6604	A-5
Q6605	A-5
Q6606	A-5
Q6607	C-5
Q6608	C-5
Q6609	B-7
Q6610	B-7
Q6611	B-4
Q6612	C-7
Q6613	C-6
Transistor & Resistor	
QR6601	B-5
QR6603	A-5
QR6605	A-2
QR6606	B-5
QR6607	B-4
Integrated Circuit	
IC4001	B-2
IC4002	B-2
IC4003	B-10
IC4004	B-9
IC4005	B-3
IC4006	B-3
IC4007	B-9
IC4008	B-9
IC4014	B-10
IC4015	B-10
IC4016	B-11
IC4017	B-11
IC6601	B-6
IC6605	B-9
IC6606	A-2
IC6607	A-10
IC6608	A-3
IC6609	B-8
IC6610	B-4
IC6610	B-7
IC6611	B-4
IC6611	B-7
IC6612	B-8
Adjustment	
VR4005	C-2
VR4005	C-10
VR4006	C-1
VR4006	C-11
VR4007	C-2
VR4007	C-10
VR4008	C-1
VR4008	C-11
Connector	
P4006	A-2
P4006	A-10
P4007	B-1
P4007	B-11
P4008	C-3
P4008	C-8
P4009	A-4
P4009	A-8
P6601	C-5
P6601	C-7
P6602	A-5
P6602	A-7
P6603	A-3
P6603	A-9
P6604	C-5
P6604	C-7
P6605	C-4
P6605	C-8
P6606	B-6
P6606	B-6
P6607	B-1
P6607	B-11
P6608	C-2
P6608	C-10

ADDRESS INFORMATION

REEL DRIVE C.B.A. (E14)

REEL DRIVE C.B.A.	
Transistor	
Q2701	F-2
Transistor & Resistor	
QR2701	B-2
Integrated Circuit	
IC2701	F-1
IC2702	C-1
IC2703	A-1
IC2704	D-2
IC2705	B-2
IC2706	C-2
Connector	
P2701	A-1
P2702	B-1
P2703	C-2
P2704	E-2
P2705	B-2

ADDRESS INFORMATION


REEL DRIVE
REF NO 2700 SERIES
IC1
IC2
IC3
IC5
IC6
P2702
P2703
P2704
P2705
QR1
C
D
E
F
R1
R12
R13
R14
R15
R16
R20
R28
R31
R32
R33
R35
R36
R37
R38
R39
R42
C4
C5
C6
C7
C8
C9
C10
C11
C12
C17
C18
C19
C20
C21
C25
C26
C27
C28
C29
D2
D3
D5
D6
D7
L2
L3
L4

(FOIL SIDE)

REAR JACK C.B.A. (E29)

XLR M C.B.A. (E30) AND XLR F C.B.A. (E31: AG-7700 ONLY)

REAR JACK C.B.A.	
Connector	
P6701	C-5
P6702	C-4
P6703	C-4
P6704	C-2
P6705	C-1

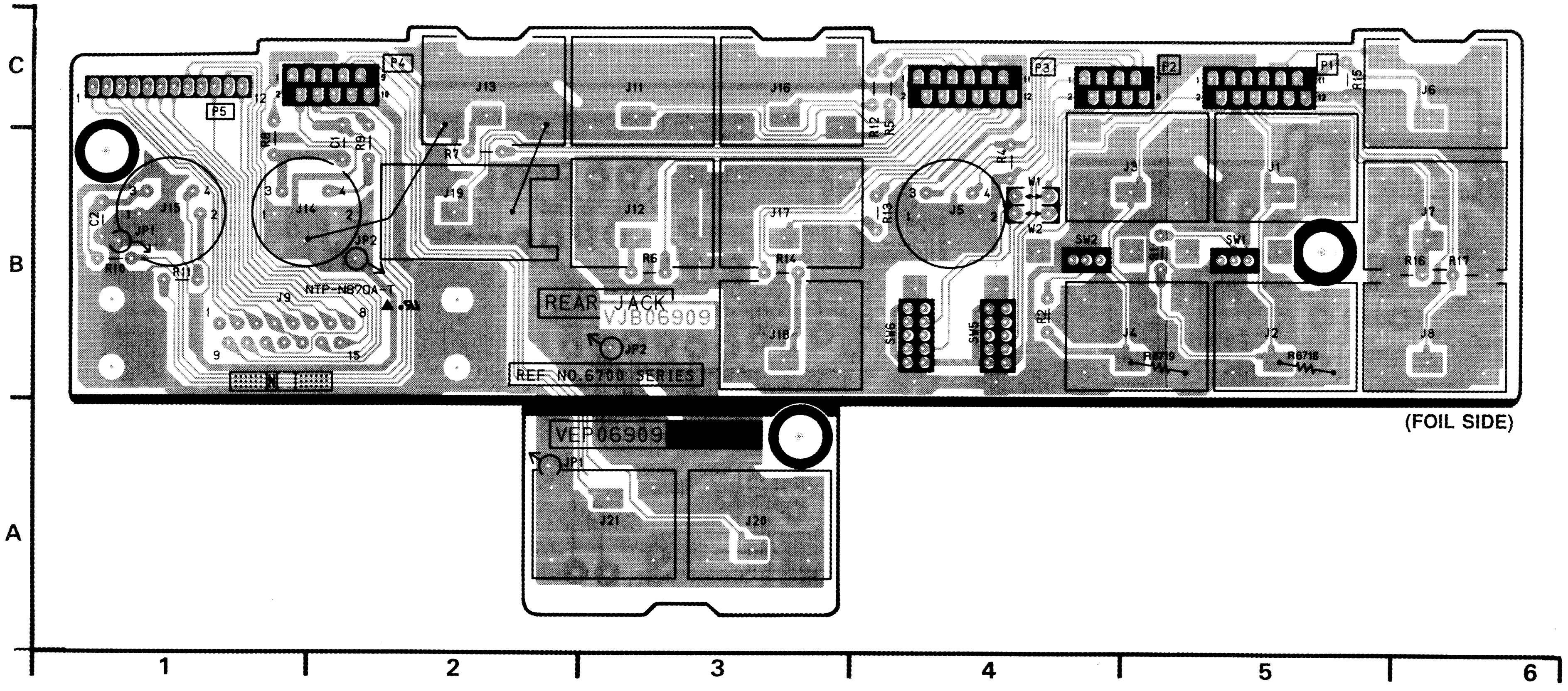
ADDRESS INFORMATION

XLR M C.B.A.	
Connector	
P6706	B-2
P6707	B-1

ADDRESS INFORMATION

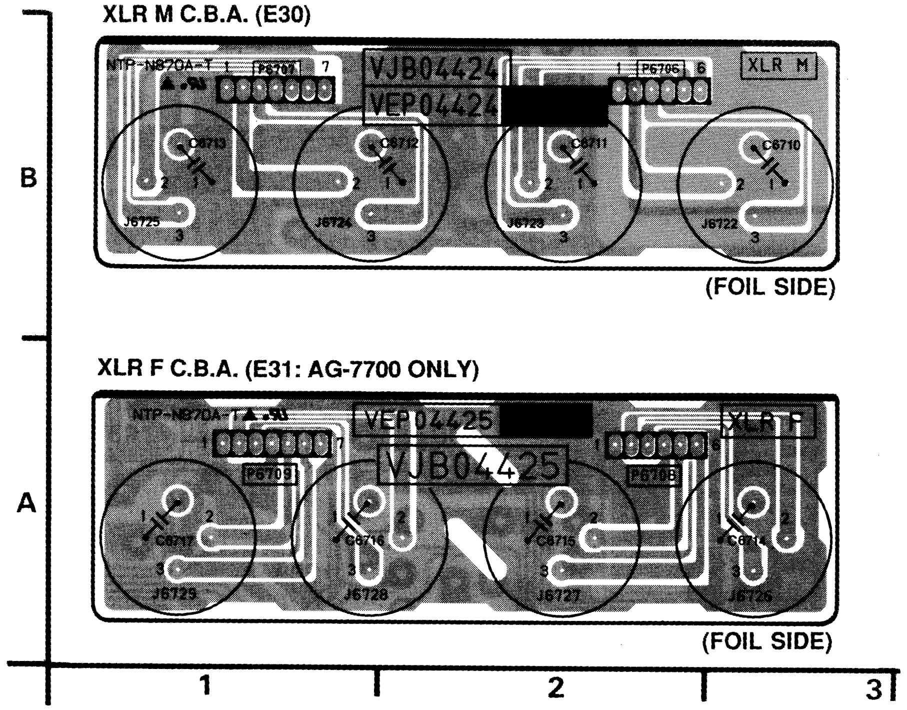
XLR F C.B.A.	
Connector	
P6708	A-2
P6709	A-1

ADDRESS INFORMATION


C
B
A
1
2
3
4
5
6
P5
P4
P3
P2
P1
J13
J11
J16
J6
J15
J14
J19
J12
J17
J5
J3
J1
J7
J9
J18
J4
J2
J8
J21
J20
JP1
JP2
SW1
SW2
SW5
SW6
R6718
R6719
NTP-N870A-T
REAR JACK
VJB06909
VEP06909
REF NO.6700 SERIES
(FOIL SIDE)

XLR M C.B.A. (E30)

XLR F C.B.A. (E31: AG-7700 ONLY)


B
A
1
2
3
NTP-N870A-T
P6707
P6706
VJB04424
VEP04424
XLR M
C6713
C6712
C6711
C6710
J6725
J6724
J6723
J6722
(FOIL SIDE)
VEP04425
VJB04425
XLR F
P6709
P6708
C6717
C6716
C6715
C6714
J6729
J6728
J6727
J6726
(FOIL SIDE)

SECTION 8

EXPLODED VIEWS
&
REPLACEMENT PARTS LISTS

CONTENTS

SERVICING FIXTURES & TOOLS LIST ······PRT-2

CHASSIS PARTS SECTION ······PRT-3

MOVING PARTS SECTION ······PRT-5

CASSETTE COMPARTMENT SECTION ······PRT-6

CHASSIS & FRAME SECTION ······PRT-8

CASING PARTS SECTION ······PRT-9

PACKING PARTS SECTION ······PRT-11

ELECTRICAL REPLACEMENT PARTS LIST ······PRT-13

NOTE

EXPLODED VIEWS ARE BASED ON AG-7700.

NOTES

1. ● Be sure to make your orders of replacement parts according to this list.
   ● "<R>" in Remark column indicates recommended parts.
   ● "<M>" in Remark column indicates needed in the periodical maintenance.
2. IMPORTANT SAFETY NOTICE
   Components indentified by "<!>" have special characteristics important for safety.
   When replacing any of these components, use only the original ones.
   Meaning of symbol "<!>" on this parts list is exactly the same as synbol ⚠ on Schematic and Circuit Board Diagrams.
3. Unless otherwise specified;
   All resistors are in (Ω), K=1,000Ω, M=1,000kΩ.
   All capacitors are in (F), U=10 F, P=10 F.
4. ITEM NUMBERS WITH CAPITAL LETER E
   Item numbers woth capital leter E (Example: E1, E2, ...) in Ref. no. column mean that the parts are listed with the E item numbers in the exploded views.
5. The main assembled parts are shown below C.B.A. marked with "■".
6. When ordering parts, use parts No. only form Part No. column.
7. Printed circuit board assembly with mark (RTL) is no longer available after discontinuation of the product.
8. Abbreviations for parts;

NAME	DESCRIPTION
C.CAPACITOR	CERAMIC CAPACITOR
C.CAPACITOR CH	CERAMIC CHIP CAPACITOR
E.CAPACITOR	ELECTROLYTIC CAPACITOR
G.CAPACITOR	GLASS CAPACITOR
M.CAPACITOR	MICA CAPACITOR
P.CAPACITOR	PLASTIC FILM CAPACITOR
S.CAPACITOR	SEMI-CONDUCTOR CAPACITOR
T.CAPACITOR	TANTALUM CAPACITOR
TRIMMER	TRIMMER
C.RESISTOR	CARBON RESISTOR
F.RESISTOR	FUSE RESISTOR
M.RESISTOR	METAL OXSIDE RESISTOR
M.RESISTOR CH	METAL OXSIDE CHIP RESISTOR
S.RESISTOR	SOLID RESISTOR
V.RESISTOR	VARIABLE RESISTOR
W.RESISTOR	WIRE WOUND RESISTOR
COMBI. TR-R	TRANSISTOR-RESISTOR COMBINATION PARTS
COMBI. R-R	RESISTOR-RESISTOR COMBINATION PARTS
COMBI. C-R-L	CAPACITOR-COIL COMBINATION PARTS
C.B.A.	CIRCUIT BOARD ASSEMBLY

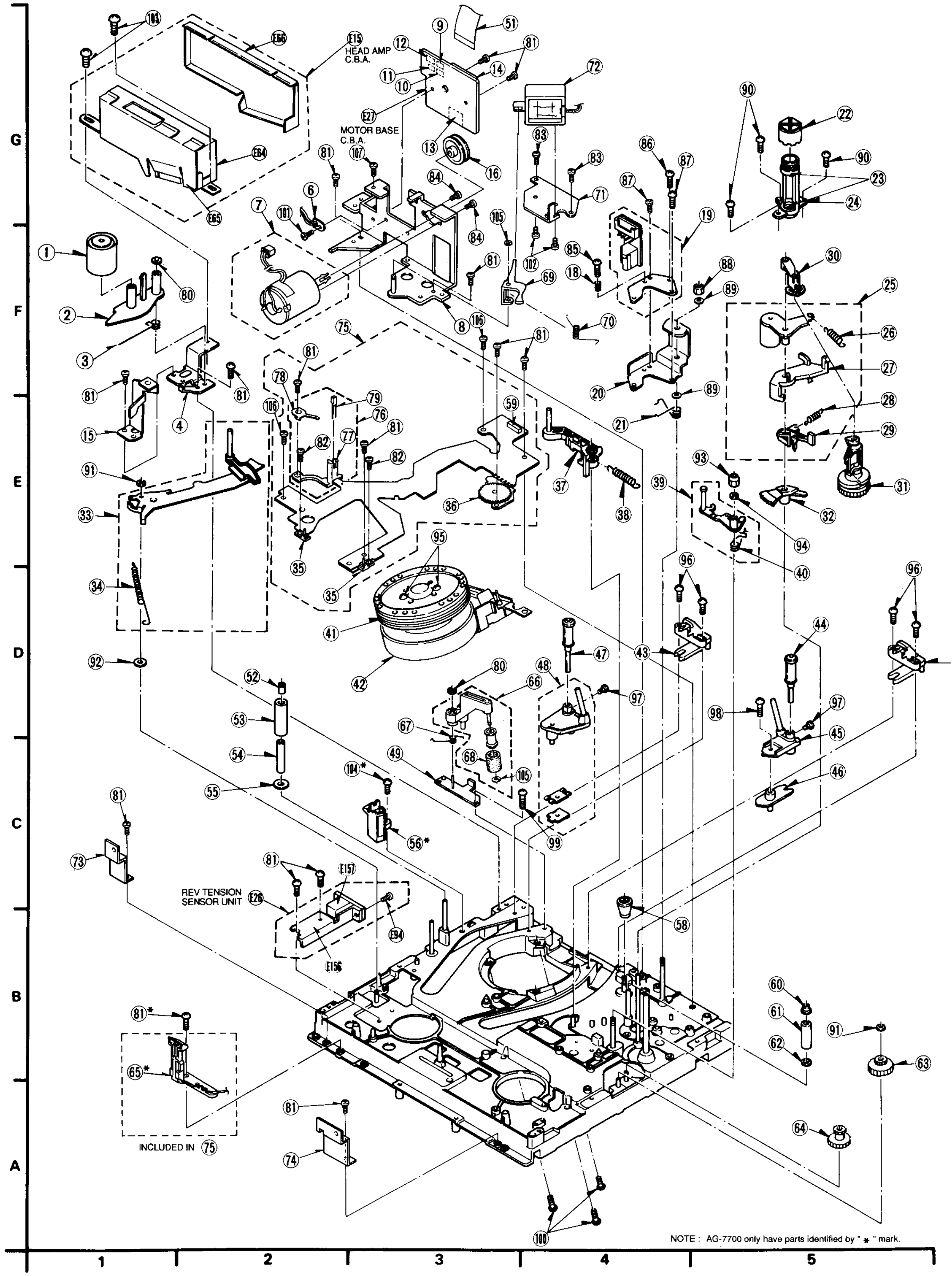
SERVICING FIXTURE & TOOLS LIST

Ref. No.		Part No.	Part Name & Description	Pcs	Remarks
		VFM8080HADH	VHS ALIGNMENT TAPE	1	
		VFK0329	POST ADJ. SCREWDRIVER	1	
		VFK0132	BACK TENSION METER	1	(T2-H7-UM)
			(TENTELO METER, MADE IN U.S.A)		
		VFK1012	POST ADJ. PLATE	1	
		VFK0133	DIAL TORQUE GAUGE	1	
		VFK0180	PLASTIC CLAMPER	1	
		VFK0134	ADAPTOR	1	FOR VFK0133
		VFK0190	REEL TABLE HEIGHT GAUGE	1	
		VFK0236	TENSION POST ADJ. FIXTURE	1	
		VFK0806	TENSION SENSOR ADJ. FIXTURE	1	
		VFK0328	H-POSITION ADJ. SCREWDRIVER	1	
		VFK0330	FINE ADJ. SCREWDRIVER (3mm)	1	

Ref. No.		Part No.	Part Name & Description	Pcs	Remarks
		VFK0335	RETAINING RING REMOVER	1	(3mm / 1mm)
		VFK0326	HEX. WRENCH SET	1	
		VFK0948	CHECK LIGHT	1	
		MOR256	MOLYTONE GREASE	1	
		VFK0680	S.C.R. GREASE	1	
		VFK27	HEAD CREANING STICK	1	
		VFK0269	L-TYPE SCREWDRIVER	1	
		VFK66	FAN TYPE TENSION GAUGE	1	
		VFK0941	EXTENDER BOARD 100P	1	
		VFK0829	EXTENDER BOARD 64P	1	
		VFK0942	EXTENDER CODE 13P	1	
		VFK0685	EXTENDER CODE 40P	1	

EXPLODED VIEWS

❶ Chassis Parts Section



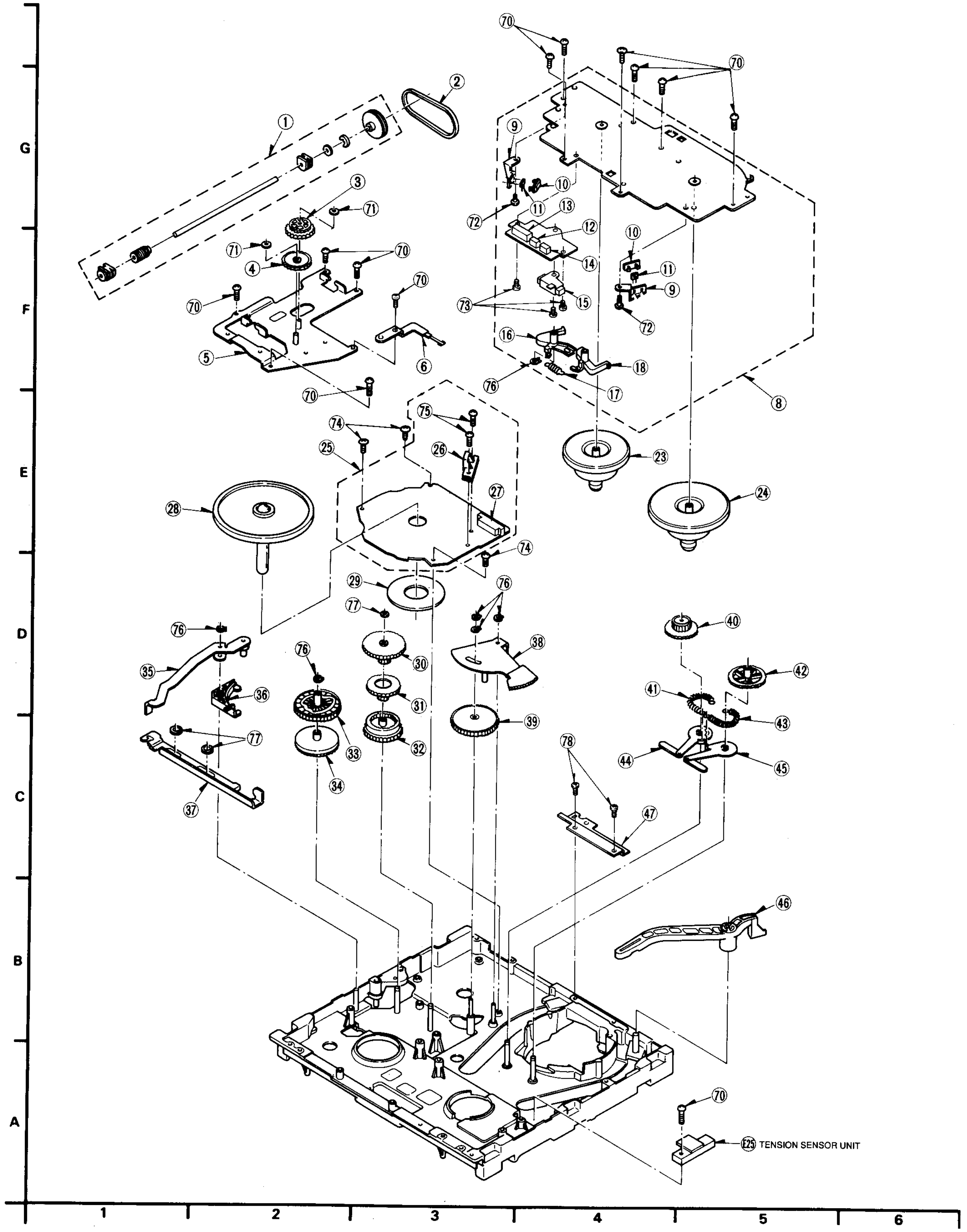
NOTE : AG-7700 only have parts identified by " * " mark.

MECHANICAL REPLACEMENT PARTS LIST

1. Chassis Parts Section

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1-1		VXP1075	IMPEDANCE ROLLER UNIT	1	
1-2		VML2293	IMPEDANCE ROLLER ARM	1	
1-3		VMB1976	IMPEDANCE SPRING	1	
1-4		VMA7982	HEAD AMP ANGLE (L)	1	
1-6		VEK3185	HUMIDITY RESISTOR UNIT	1	<R>
1-7		VEM0360	LOADING MOTOR UNIT	1	<M><R><!>
1-8		VXA5151	MOTOR BASE (1) UNIT	1	
1-9		VJP1229G	CONNECTOR (2P)	1	
1-10		VJP1229T	CONNECTOR (2P)	1	
1-11		VJP1229R	CONNECTOR (2P)	1	
1-12		VJP1230R	CONNECTOR (3P)	1	
1-13		VJP3106B013	CONNECTOR (13P)	1	
1-14		VJS1493	CONNECTOR (15P)	1	
1-15		VMA8130	IMPEDANCE ROLLER SUPPORT	1	
			ANGLE		
1-16		VDP1319	MOTOR PULLEY	1	
1-18		VMB1251	ADJUST SPRING	1	
1-19		VED0145	A/C HEAD (1) UNIT	1	<M><R>AG-7700
1-19		VED0116	A/C HEAD (1) UNIT	1	<M><R>AG-7600
1-20		VXA3649	A/C HEAD BASE UNIT	1	
1-21		VMB1567	A/C HEIGHT SPRING	1	
1-22		VXQ0094	THRUST SCREW UNIT	1	
1-23		VMX1567	OIL SEAL	2	
1-24		VXD0120	HOUSING UNIT	1	
1-25		VXL2367	PRESSURE ROLLER UNIT	1	<M><R>
1-26		VMB1977	PINCH PRESSURE SPRING	1	
1-27		VXL2368	PINCH PRESSURE ARM	1	
1-28		VMB1569	PINCH ARM SPRING	1	
1-29		VML1874	PINCH LIFT ARM	1	
1-30		VMX1353	PINCH CAM ARM	1	
1-31		VDG0577	PINCH CAM	1	
1-32		VDG0651	PINCH SECTOR GEAR	1	
1-33		VXL2089	TENSION ARM UNIT	1	
1-34		VMB1975	TENSION SPRING	1	
1-35		VSP0293	CASSETTE DETECT SW	2	
1-36		VSS0257	MODE SWITCH	1	<M><R>
1-37		VXL1857	SUB LOADING ARM (1) UNIT	1	
1-38		VMB1566	SUB POST SPRING	1	
1-39		VXL2074	P5 ARM UNIT	1	
1-40		VMB1554	P5 SPRING	1	
1-41		VEH0687	UPPER CYLINDER UNIT	1	<M><R>
1-42		VEG1109	LOWER CYLINDER UNIT	1	<M><R>
1-43		VMD0910	POST STOPPER	2	
1-44		VXP1264	ROLLER POST (1) UNIT	1	
1-45		VXA3213	INCLINED BASE (T)(1) UNIT	1	
1-46		VXA2687	INCLINED ADJUSTMENT PLATE U	1	
1-47		VXP1263	ROLLER POST (S) UNIT	1	
1-48		VXA3249KIT	INCLINED BASE (S)	1	
1-49		VXA3980	HEAD CLEANING PLATE	1	
1-51		VWJ15AW280M0	FLEXIBLE CABLE	1	
1-52		VMX1088	SUPPLY UPPER LIMITER	1	
1-53		VDP1533	SUPPLY ROLLER	1	
1-54		VMX1581	P1 COLLAR	1	
1-55		VMX1533	SUPPLY LOWER LIMITER	1	
1-56		VBS0038	FE HEAD	1	AG-7700 ONLY
1-58		VHN0110	ADJUST NUT	1	
1-59		VJS2964A013	CONNECTOR (15P)	1	
1-60		VMX1544	P4 UPPER LIMITER	1	
1-61		VMX1568	P4 SLEEVE	1	
1-62		VMX1534	P4 LOWER LIMITER	1	
1-63		VDG0664	CONNECTION GEAR	1	
1-64		VDG0483	PINCH SPEED DOWN GEAR	1	
1-65		VES0489	SAFETY SWITCH	1	AG-7700 ONLY
1-66		VXL2263	HEAD CLEANING UNIT	1	<M><R>
1-67		VMB2532	CLEANING SPRING	1	
1-68		VMT0321	HEAD CLEANING PAD	1	
1-69		VML2845	CAM LEVER	1	
1-70		VMB2672	CAM LEVER SPRING	1	
1-71		VMA8977	SOLENOID BASE	1	
1-72		VSJ0111	PINCH SOLENOID	1	
1-73		VMA6895	MOUNT PLATE (L)	1	
1-74		VMA6896	MOUNT PLATE (R)	1	
1-75		VXA5165	BEND FLEXIBLE UNIT	1	AG-7700
1-75		VXA5308	BEND FLEXIBLE UNIT	1	AG-7600
1-76		VXA3520	LED UNIT	1	
1-77		VMD0911	LED HOLDER	1	
1-78		VMB2020	EARTH SPRING	1	
1-79		GL450	LED	1	
1-80		VMX1079	CUT WASHER	2	
1-81		XTV26+6F	SCREW	15	(14):AG-7600
1-82		XTV2+4F	SCREW	2	
1-83		XYN26+K5	SCREW	2	
1-84		XSN3+3.5	SCREW	2	
1-85		VHD0322	SCREW	1	
1-86		VHD0089B	SCREW	1	
1-87		XSN3D6FZ	SCREW	2	
1-88		VHN0063	M4 NYLON NUT	1	
1-89		XWE4	M4 NYLON WASHER	2	
1-90		VHD0374	SCREW	3	
1-91		VMX0653	CUT WASHER	2	
1-92		XWGV3D6G	POLLY SLIDER WASHER	1	
1-93		VHD0045	M3 NYLON NUT	1	
1-94		XWE3VW	M3 WASHER	1	
1-95		VHD0425	SCREW	2	
1-96		XTV26+10F	SCREW	4	
1-97		VHD0133	SCREW	2	
1-98		XYN26+F6FZ	SCREW	1	
1-99		XTN3+6F	SCREW	1	
1-100		VHD0342	SCREW	3	
1-101		XTV2+6J	SCREW	1	
1-102		XYN26+C4	SCREW	2	
1-103		XTW3+8TR	SCREW	2	
1-104		XTV26+8F	SCREW	1	AG-7700 ONLY
1-105		VMX0653	CUT WASHER	11	
1-106		XTV26+4F	SCREW	2	
1-107		XYE3+EF8R	SCREW	1	

❷ *Moving Parts Section*



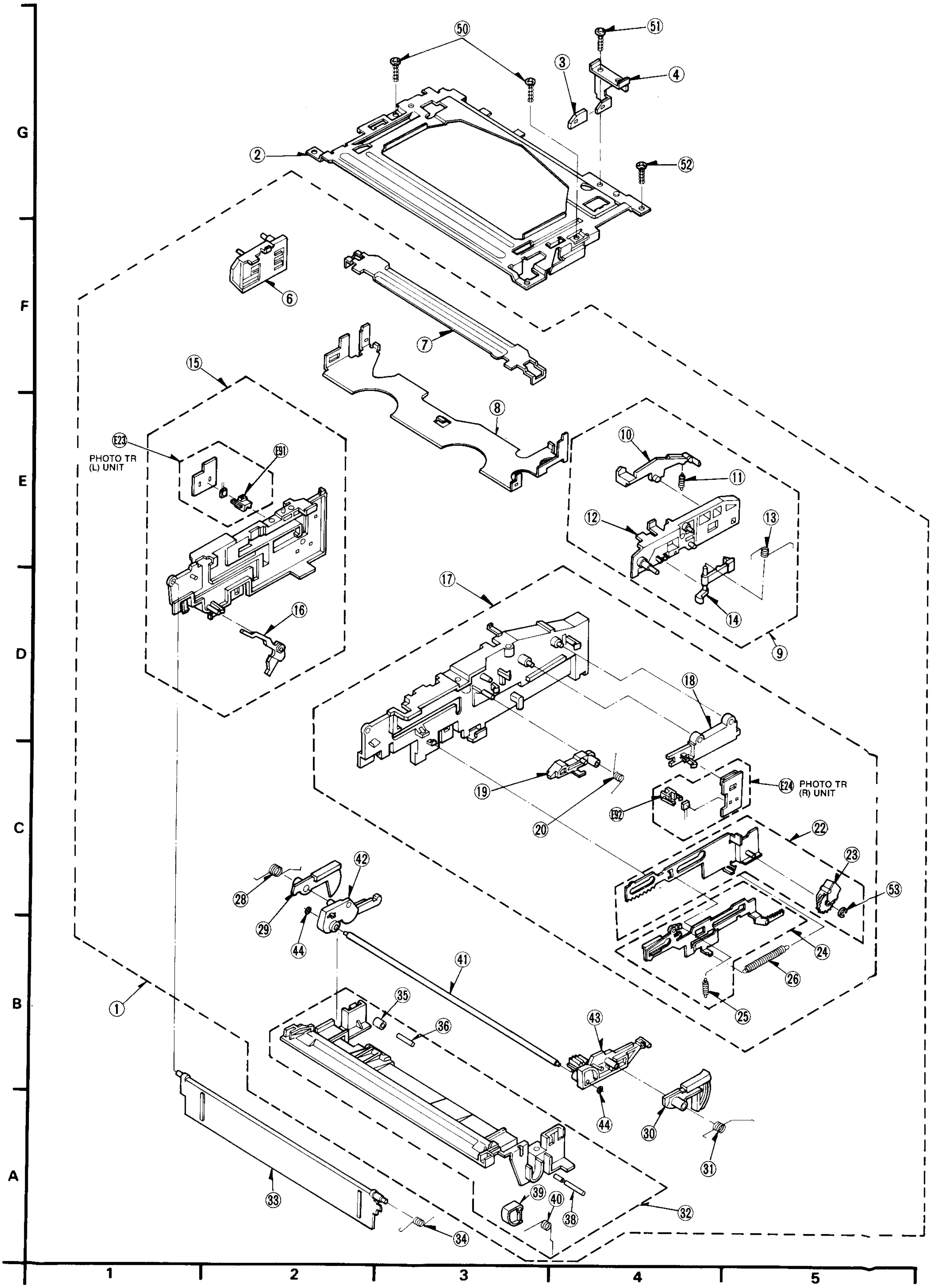
2. Moving Parts Section

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
2-1		VXP1082	WORM SHAFT UNIT	1	
2-2		VDV0228	LOADING BELT	1	<M><R>
2-3		VDG0581	WORM WHEEL	1	
2-4		VDG0582	INTERMEDIATE GEAR	1	
2-5		VXA3646	GEAR BASE (1) UNIT	1	
2-6		VXS0098	EARTH SPRING UNIT	1	
2-8		VXA4839	STATOR BASE UNIT	1	
2-9		VMD0611	FG SUPPORT (1)	2	
2-10		VMD0621	FG SUPPORT (2)	2	
2-11		HW-300B	HOLE IC	2	<R>
2-12		VJP1230R	CONNECTOR (3P)	1	
2-13		VJP3202A008Z	CONNECTOR (8P)	1	
2-14		VJP1230T	CONNECTOR (3P)	1	
2-15		VSJ0066	SOLENOID	1	<!>
2-16		VXZ0270	MAIN BRAKE (S) UNIT	1	<R>
2-17		VMB1978	BRAKE SPRING	1	
2-18		VXZ0314	MAIN BLAKE (T) UNIT	1	<R>
2-23		VXR0187	TAKEUP REEL TABLE UNIT	1	<R>
2-24		VXR0225	SUPPLY REEL TABLE UNIT	1	<R>
2-25		VEK6553	STATOR UNIT	1	
2-26		VBK0063	MR HEAD	1	<R>
2-27		VJP1902	CONNECTOR	1	
2-28		VXP1456	ROTOR UNIT	1	
2-29		VMA6847	SUB PLATE	1	
2-30		VDG0580	CENTER GEAR	1	
2-31		VXP0878	RETANER GEAR UNIT	1	
2-32		VDG0342	RING GEAR	1	
2-33		VDG0578	MAIN CAM GEAR	1	
2-34		VDG0343	SUB CAM GEAR	1	
2-35		VXL1895	CAM FOLLOWER ARM UNIT	1	
2-36		VML1861	DETENT ARM	1	
2-37		VMM0218	MAIN ROD	1	
2-38		VXA3144	SECTOR GEAR UNIT	1	
2-39		VDG0579	LOADING CAM GEAR	1	
2-40		VDG0420	LOADING GEAR (T)	1	
2-41		VMB1555	LOADING SPRING (T)	1	
2-42		VDG0593	LOADING GEAR (S)	1	
2-43		VMB1746	LOADING SPRING (S)	1	
2-44		VXL1489	LOADING ARM (T)(1) UNIT	1	
2-45		VXL1487	LOADING ARM (S)(1) UNIT	1	
2-46		VML2304	CLEANING ROD	1	
2-47		VMA8003	MOUNT PLATE (B)	1	
2-70		XTV26+6F	SCREW	12	
2-71		VMX0653	CUT WASHER	2	
2-72		XYN2+F5	SCREW	2	
2-73		XSN26+4	SCREW	3	
2-74		XYEV0004	SCREW	3	
2-75		XYNV0015	SCREW	2	
2-76		XUEV3VW	CAT WASHER	6	
2-77		VMX1079	CUT WASHER	3	
2-78		XTV3+8F	SCREW	2	

3. Cassette Compartment Section

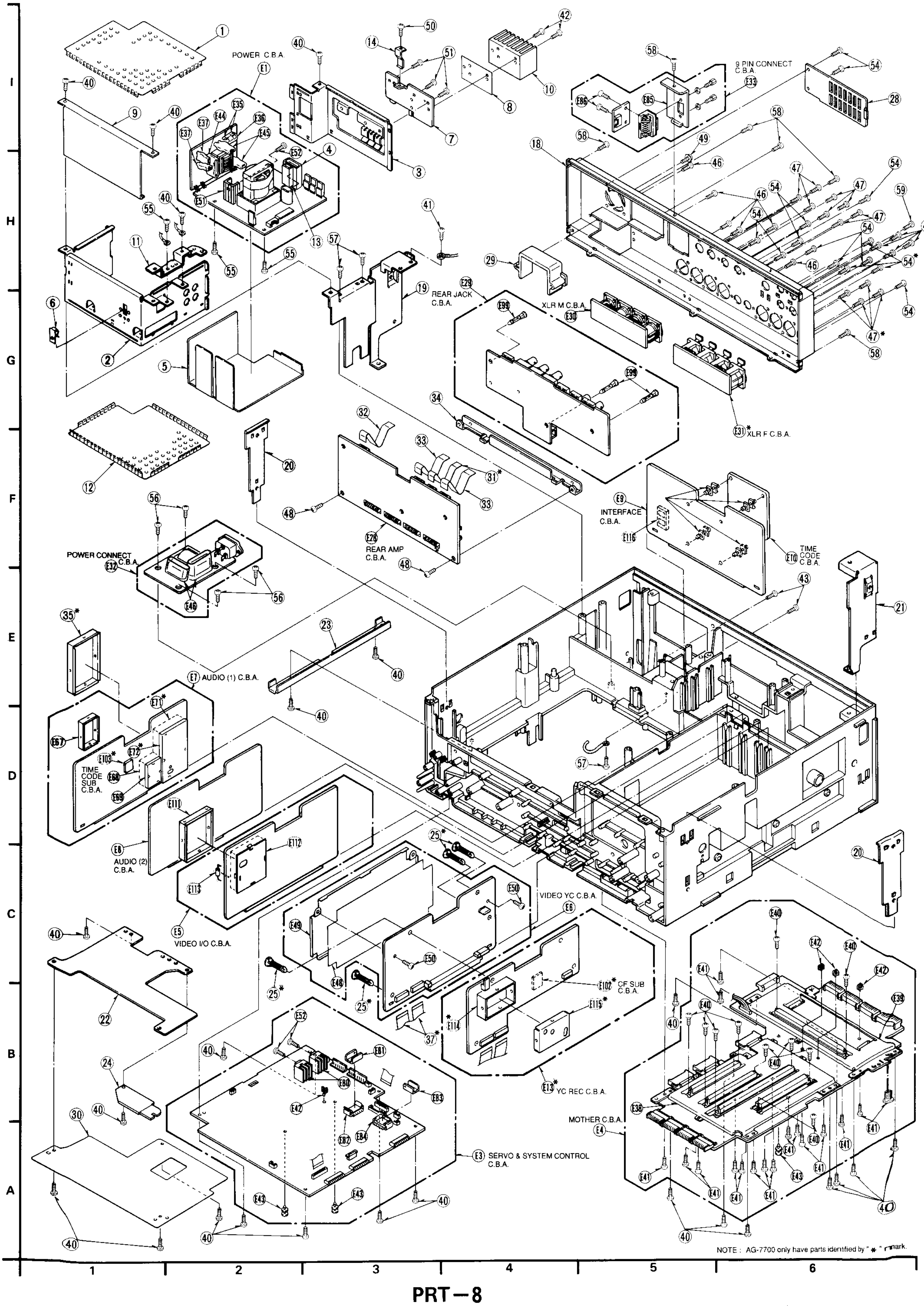
Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
3-1		VXA4504	CASSETTE COMPERTMENT UNIT	1	<R>
3-2		VMA8166	TOP PLATE	1	
3-3		VMD1384	CASSETTE HOLDER CAP	1	
3-4		VMA7992	CASSETTE HOLDER ANGLE	1	
3-6		VMD1387	HOLDER GUIDE (L)	1	
3-7		VXA3691	HOLDER ANGLE UNIT	1	
3-8		VMA7989	CASSETTE HOLDER	1	
3-9		VXA3692	HOLDER GUIDE (R) UNIT	1	
3-10		VML1882	DOOR OPEN LEVER	1	
3-11		VMB1584	DOOR OPEN LEVER SPRING	1	
3-12		VMD1386	HOLDER GUIDE (R)	1	
3-13		VMB2063	RELEASE SPRING	1	
3-14		VML2306	RELEASE LEVER	1	
3-15		VXA3694	SIDE PLATE (L) UNIT	1	
3-16		VML2305	OPENER LEVER	1	
3-17		VXA3693	SIDE PLATE (R) UNIT	1	
3-18		VSS0258	SLIDE SWITCH	1	<R>
3-19		VML2288	DOWN SUPPORT LEVER	1	
3-20		VMB1961	DOWN SUPPORT SPRING	1	
3-22		VXA3696	MAIN RACK UNIT	1	
3-23		VDG0737	DAMPER	1	
3-24		VXA3697	SUB RACK UNIT	1	
3-25		VMB1780	RACK C SPRING	1	
3-26		VMB1997	CLUTCH SPRING	1	
3-28		VMB1999	SUB WIPER SPRING (L)	1	
3-29		VML1878	SUB WIPER ARM (L)	1	
3-30		VML1879	SUB WIPER ARM (R)	1	
3-31		VMB1998	SUB WIPER SPRING (R)	1	
3-32		VXA4500	CASSETTE GUIDE UNIT	1	
3-33		VKF1464	BLINDER PANEL	1	
3-34		VMB1258	BLINDER SPRING	1	
3-35		VDP1398	CASSETTE ROLLER	1	
3-36		VMS5505	ROLLER SHAFT	1	
3-38		VMS4644	SHAFT	1	
3-39		VMD1773	CASSETTE SUPPORT	1	
3-40		VMB2329	SUPPORT SPRING	1	
3-41		VMS3182	MAIN SHAFT	1	
3-42		VML1876	WIPER ARM (L)	1	
3-43		VML1877	WIPER ARM (R)	1	
3-44		VHN0068	STOPPING WASHER	2	
3-50		XTV26+8G	SCREW	2	
3-51		XTV26+6F	SCREW	1	
3-52		XTV3+8G	SCREW	1	
3-53		XUC25FP	E RING	1	

❸ Cassette Compartment Section



G
F
E
D
C
B
A
1
2
3
4
5
(50)
(51)
③
④
②
(52)
⑥
⑦
⑧
⑮
E23
PHOTO TR
(L) UNIT
E91
⑩
⑪
⑫
⑬
⑭
⑨
⑯
⑰
⑱
⑲
⑳
E24
PHOTO TR
(R) UNIT
E92
㉒
㉓
(53)
㉘
㉙
(42)
(44)
㉔
㉖
㉕
(41)
①
㉟
㊱
(43)
(44)
㉚
㉛
㉝
㊴
㊵
㊳
㉜
㉞

❹ Chassis & Frame Section


POWER C.B.A.
E1
9 PIN CONNECT C.B.A.
E33
E85
E86
REAR JACK C.B.A.
E29
XLR M C.B.A.
E30
E31* XLR F C.B.A.
E99
INTERFACE C.B.A.
E9
E116
TIME CODE C.B.A.
E10
REAR AMP C.B.A.
E26
POWER CONNECT C.B.A.
E32
E46
E7 AUDIO (1) C.B.A.
E71*
E72*
E103*
E67
E68
E69
TIME CODE SUB C.B.A.
E111
E112
E113
E8
AUDIO (2) C.B.A.
E5
VIDEO I/O C.B.A.
VIDEO YC C.B.A.
E6
E48
E49
E50
E102* CF SUB C.B.A.
E115*
E114*
E13* YC REC C.B.A.
MOTHER C.B.A.
E4
E38
E39
E40
E41
E42
E43
E3 SERVO & SYSTEM CONTROL C.B.A.
E52
E80
E81
E82
E83
E84
E35
E36
E37
E44
E45
E51
1
2
3
4
5
6
7
8
9
10
11
12
13
14
18
19
20
21
22
23
24
25*
28
29
30
31*
32
33
34
35*
37*
40
41
42
43
46
47
47*
48
49
50
51
54
54*
55
56
57
58
59
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6

NOTE : AG-7700 only have parts identified by " * " mark.

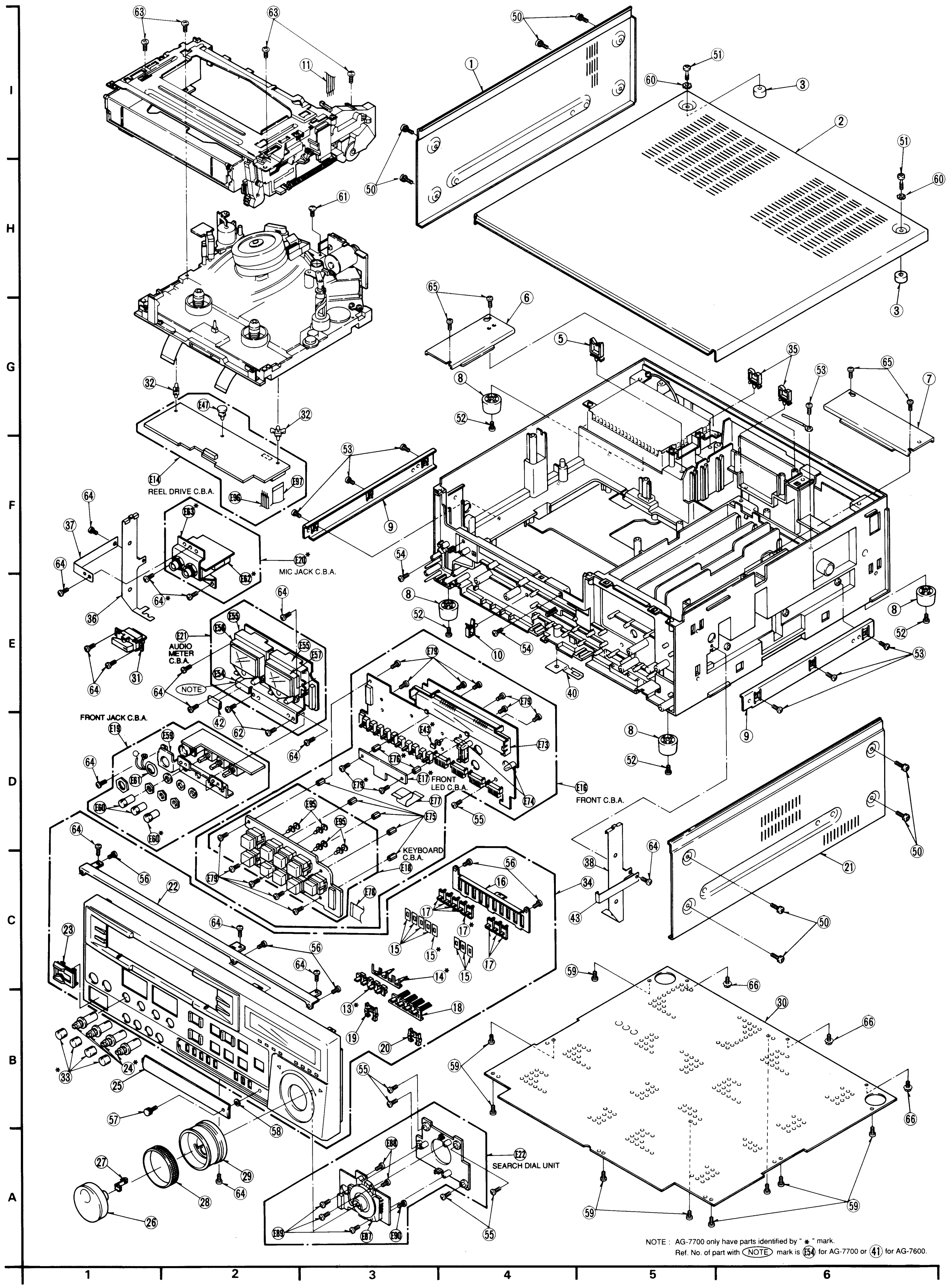
4. Chassis & Frame Section

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
4-1	VSC3961	POWER UNIT SHIELD CASE	1	
		(UPPER)		
4-2	VSC3963	POWER SHIELD CASE (MIDDLE	1	
		(A))		
4-3	VSC3964	POWER SHIELD CASE (MIDDLE	1	
		(B))		
4-4	VWZ0106	INSULATION TUBE	1	
4-5	VMZ2224	INSULATION SHEET	1	
4-6	VMC0357	TR SPRING	1	
4-7	VSC3965	POWER SHIELD PLATE	1	
4-8	VMT0534	INSULATION SHEET	1	
4-9	VSC4195	POWER SHIELD SHEET	1	
4-10	VSC3966	HEAT SINK	1	
4-11	VMP2669	POWER EARTH ANGLE	1	
4-12	VSC3962	POWER SHIELD CASE (LOWER)	1	
4-13	VMZ2187	INSULATION TUBE	1	
4-14	VMP3083	TR HOLDER	1	
4-16	VJH0632	C.B. HOLDER	4	
4-18	VJH0792	REAR JACK PLATE	1	AG-7700
4-18	VJH0793	REAR JACK PLATE	1	AG-7600
4-19	VMP3221	TOP ANGLE (LEFT)	1	
4-20	VXA4649	SIDE ANGLE UNIT	2	
4-21	VMP3222	TOP ANGLE (RIGHT)	1	
4-22	VMP3216	MECHANISM SHIELD PLATE	1	
4-23	VMP3232	POWER CORD SHIELD ANGLE	1	
4-24	VMP3750	SUPPORT ANGLE	1	
4-25	VMX2078	P.C.B. HOLDER	4	AG-7700 ONLY
4-28	VMP4525	HEAT SINK COVER	1	
4-29	VGF0507	AC INLET GUARD	1	
4-30	VSC4186	MECHANISM SHIELD SHEET	1	
4-31	VWJ08AW070M0	FLEXIBLE CABLE	1	AG-7700 ONLY
4-32	VWJ10AW070M0	FLEXIBLE CABLE	1	
4-33	VWJ12AW070M0	FLEXIBLE CABLE	2	
4-34	VMP4224	REAR AMP ANGLE	1	
4-35	VSC3970	SHIELD COVER (UPPER)	1	AG-7700 ONLY
4-37	VWJ18XW040L0	FLEXIBLE CABLE	2	AG-7700 ONLY
4-40	XTV3+10JFR	SCREW	23	
4-41	XYE4+EF6	SCREW	1	
4-42	XYN26+C12FZ	SCREW	2	
4-43	XSB3+10FZ	SCREW	2	
4-46	XTV3+8GFZ	SCREW	6	(5):AG-7600
4-47	XSN26+6FZ	SCREW	16	(8):AG-7600
4-48	XTV3+8FFR	SCREW	2	
4-49	VHD0426	SCREW	1	
4-50	XYN3+C8	SCREW	1	
4-51	XTS3+8F	SCREW	3	
4-54	XTV3+8FFZ	SCREW	15	(12):AG-7600
4-55	XYE3+EF8FR	SCREW	4	
4-56	XTW3+10TFR	SCREW	4	
4-57	XTV3+10J	SCREW	3	
4-58	XYE3+EF8FZ	SCREW	6	
4-59	XYE3+EF12FZ	SCREW	1	

5. Casing Parts Section

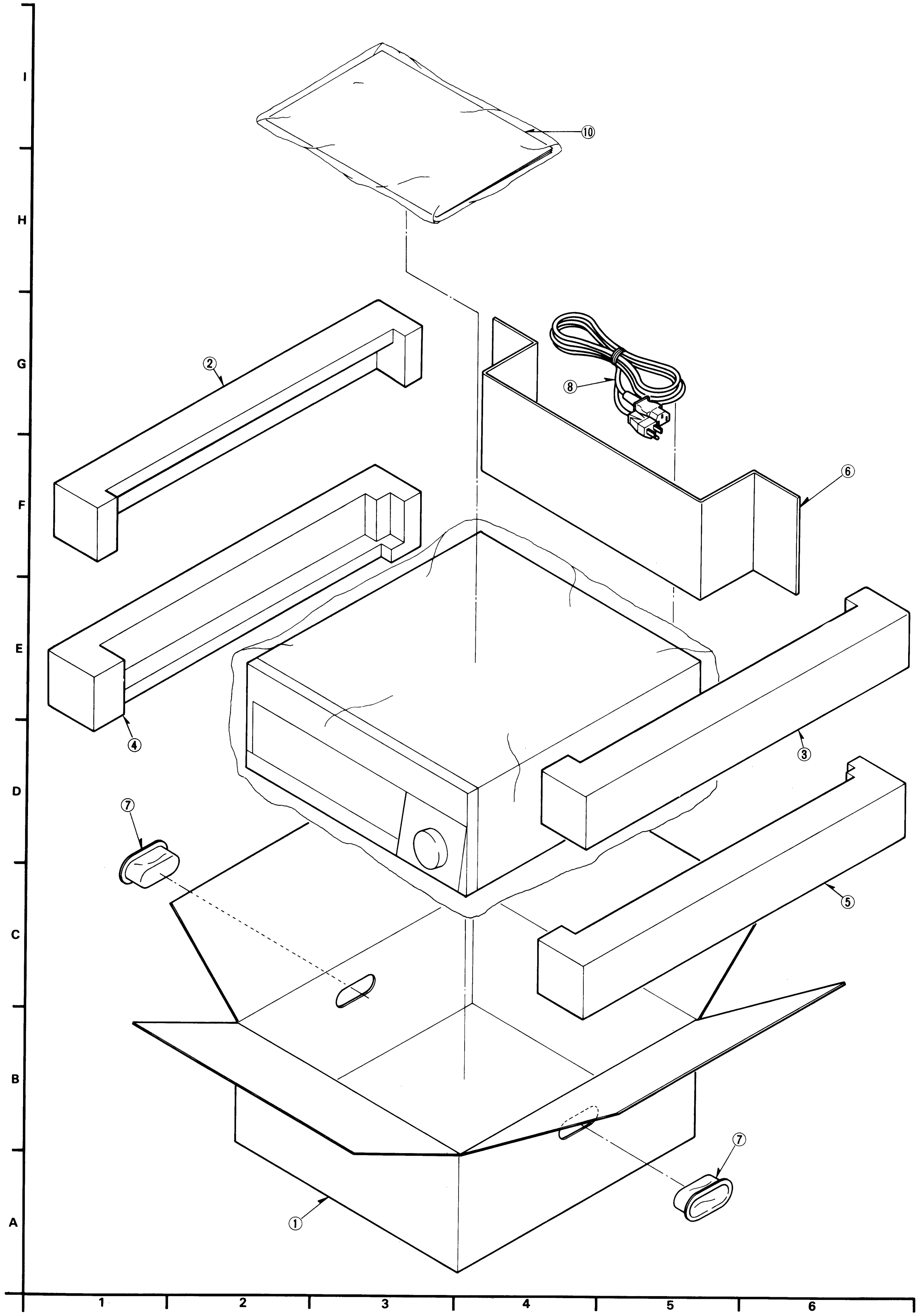
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
5-1	VGM1048	SIDE PANEL (LEFT)	1	
5-2	VGM1114	TOP PANEL	1	
5-3	VMX2248	TOP PANEL SPACER	2	
5-5	VJF0004	MINI CLAMPER	1	
5-6	VMP4225	C.B. HOLDER (1)	1	
5-7	VMP4226	C.B. HOLDER (2)	1	
5-8	VKA0117	RUBBER FOOT	4	
5-9	VXA4551	SUPPORT ANGLE UNIT	2	
5-10	VJF0013	MINI CLAMPER	1	
5-11	VWJ04CN150CA	FLAT CABLE	1	
5-13	VGU6485	OPERATION BUTTON	4	AG-7700 ONLY
5-14	VKC0423	OPERATION BUTTON HOLDER	1	AG-7700 ONLY
5-15	VGF0508	SLIDE KNOB SHEET	8	(7):AG-7600
5-16	VMP3226	KNOB HOLD ANGLE	1	
5-17	VGU5603	SLIDE KNOB	8	(7):AG-7600
5-18	VGU6483	COUNTER BUTTON	1	
5-19	VGL0508	REV. PANELIGHT	1	
5-20	VGL0506	FWD PANELIGHT	1	
5-21	VGM1049	SIDE PANEL (RIGHT)	1	
5-22	VMP3225	FRONT SUPPORT ANGLE	1	
5-23	VKW1501	POWER SWITCH COVER	1	
5-24	VGU6482	VR KNOB	4	AG-7700 ONLY
5-25	VKW1839	OPERATION AREA COVER	1	
5-26	VGU4604	JOG DIAL KNOB	1	
5-27	VMC0444	KNOB SPRING	1	
5-28	VMG0476	SEARCH DIAL RUBBER	1	
5-29	VGU4605	SERCH DIAL KNOB	1	
5-30	VKM2737	BOTTOM PLATE	1	
5-31	VES0698	POWER SWITCH UNIT	1	
5-32	VJF0726	C.B. SUPPORT	2	
5-33	VMG0477	VR KNOB CAP	4	AG-7700 ONLY
5-34	VYP5720	FRONT PANEL UNIT	1	AG-7700
5-34	VYP5721	FRONT PANEL UNIT	1	AG-7600
5-35	VJF0004	MINI CLAMPER	2	
5-36	VMP3648	EARTH PLATE (LEFT)	1	
5-37	VMP3650	MIC EARTH PLATE	1	
5-38	VMP3649	EARTH PLATE (RIGHT)	1	
5-39	VMC1039	FRONT EARTH SPRING	2	
5-40	VSC4094	SHIELD PLATE	1	
5-41	VMP3282	METER ANGLE	1	AG-7600 ONLY
5-42	VMT0509	CONDUCTIVE CUSHION	1	
5-43	VMP4424	EARTH PLATE HOLDER	1	
5-50	VHD0426	SCREW	8	
5-51	VHD0222	SCREW	2	
5-52	XTV3+16G	SCREW	4	
5-53	XTV3+10J	SCREW	7	
5-54	XTV4+8F	SCREW	2	
5-55	XTV4+10JFR	SCREW	5	
5-56	XTV3+8J	SCREW	5	
5-57	VHD0679	SCREW	1	
5-58	VMX1558	STOPPING WASHER	1	
5-59	VHD0059	SCREW	9	
5-60	XWC4BFY	WASHER (M4)	2	
5-61	XTV4+12J	SCREW	1	
5-62	XTV3+8F	SCREW	2	
5-63	XTV26+8FR	SCREW	4	
5-64	XTV3+10JFR	SCREW	16	(14):AG-7600
5-65	XYN3+8FR	SCREW	4	
5-66	XYE3+EF6	SCREW	3	

❺ Casing Parts Section



NOTE : AG-7700 only have parts identified by " * " mark.
Ref. No. of part with (NOTE) mark is (E54) for AG-7700 or (41) for AG-7600.

⑥ *Packing Parts Section*



6. Packing Parts Section

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
6-1		VPG7723	PACKING CASE	1	AG-7700
6-1		VPG7724	PACKING CASE	1	AG-7600
6-2		VPN3799	CUSHION (LEFT TOP)	1	
6-3		VPN3801	CUSHION (RIGHT TOP)	1	
6-4		VPN3802	CUSHION (LEFT BOTTOM)	1	
6-5		VPN3803	CUSHION (RIGHT BOTTOM)	1	
6-6		VPN3899	PAD	1	
6-7		VPF0149	HANDLE	1	
6-8		VJA0746	POWER CORD	1	
6-8		VJA0738	POWER CORD	1	
6-10		VQT5889	OPERATING INSTRUCTIONS	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks

ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
E9		VEP06903B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			INTERFACE		
E10		VEP06913C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			TIMECODE		AG-7700E
E10		VEP06913D	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			TIMECODE		AG-7600E
E13		VEP03B42A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			VIDEO REC		AG-7700E ONLY
E102		VEP00V96A	P.C.BOARD W/COMPONENT	1	FOR VEP03B42A
			CF SUB		
E6		VEP03B44A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			VIDEO YC		AG-7700E
E6		VEP03B44B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			VIDEO YC		AG-7600E
E1		VEP01609A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			POWER (1)		
E21		VEP04328A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			METER VR		AG-7700E
E21		VEP04328B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			METER VR		AG-7600E
E19		VEP04418C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			FRONT JACK		AG-7700E
E19		VEP04418D	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			FRONT JACK		AG-7600E
E4		VEP00V07A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			MOTHER		AG-7700E
E4		VEP00V07B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			MOTHER		AG-7600E
E32		VEP01478C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			POWER CONNECTOR		
E14		VEP02417A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			REEL DRIVE		
E5		VEP03B43A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			VIDEO I/O		AG-7700E
E5		VEP03B43B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			VIDEO I/O		AG-7600E
E20		VEP04419A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			MIC JACK		AG-7700E ONLY
E7		VEP04420C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			AUDIO (1)		AG-7700E
E103		VEP00W09A	P.C.BOARD W/COMPONENT	1	FOR VEP04420C
			TIMECODE SUB		
E7		VEP04420D	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			AUDIO (1)		AG-7600E
E8		VEP04421C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			AUDIO (2)		AG-7700E
E8		VEP04421D	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			AUDIO (2)		AG-7600E
E15		VEP05162K	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			HEAD AMP		AG-7700E
E15		VEP05162L	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			HEAD AMP		AG-7600E
E16		VEP06902E	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			FRONT		AG-7700E
E17		VEP06929A	P.C.BOARD W/COMPONENT	1	FOR VEP06902E
			FRONT LED		
E18		VEP06962A	P.C.BOARD W/COMPONENT	1	FOR VEP06902E
			KEY BOARD		
E16		VEP06902F	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			FRONT		AG-7600E
E18		VEP06962B	P.C.BOARD W/COMPONENT	1	FOR VEP06902F
			KEY BOARD		
E3		VEP06904C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			SERVO SYSCON		AG-7700E
E3		VEP06904D	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			SERVO SYSCON		AG-7600E
E30		VEP04424A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			XLR M		
E31		VEP04425A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			XLR F		AG-7700E ONLY
E33		VEP06906A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			9P IN REMOTER		
E28		VEP06908C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			REAR AMP		AG-7700E
E28		VEP06908D	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			REAR AMP		AG-7600E
E29		VEP06909C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			REAR JACK		AG-7700E
E29		VEP06909D	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			REAR JACK		AG-7600E
E25		VEK2567	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			TENSION SENSOR UNIT		
E26		VEK4265	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			REV TENSION SENSOR UNIT		
E24		VEK4058	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			PHOTO TR (R) UNIT		
E23		VEK3578	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			PHOTO TR (L) UNIT		
E27		VEK6633	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			MOTOR BASE		
E22		VEK5556	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			SEARCH DIAL UNIT		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP06903B	P.C.BOARD W/COMPONENT		
		INTERFACE		
		CAPACITORS		
C61001	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C61002,03	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	2	
C61004	ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C61005-07	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C61008	ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C61009,10	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	2	
C61011	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C61012	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C61013	ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C61014	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C61015	ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C61016-21	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C61026-29	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C61030	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C61031,32	ECEA0JU470	E.CAPACITOR 6.3V 47U	2	
C61049-51	ECEA1CU100	E.CAPACITOR 16V 10U	3	
C61052	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C61053	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C61054	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
D61001-04	11EQS04	DIODE	4	<R>
FL61001	VLF1016A470	FILTER	1	
FL61004	VLF0634	FILTER	1	
IC61001	HD641180XF6	IC	1	<R>
IC61002	VSI1403G	IC	1	<R>
IC61003	X22C12P	IC	1	<R>
IC61004	UPD65012FA19	IC	1	<R>
IC61005	TL7705CPSB	IC	1	<R>
IC61006	MC74HC4538A	IC	1	
IC61007	MC74HC32AF	IC	1	<R>
IC61008	TC7W00F	IC	1	<R>
IC61009	TC7W04F	IC	1	<R>
IC61010	MC74HC14AF	IC	1	<R>
IC61011	MC34051M	IC	1	<R>
IC61013	MC74HC541AF	IC	1	
IC61014	MC74HC245AF	IC	1	<R>
IC61015	MC74HC541AF	IC	1	
IC61016	MC74HC138AF	IC	1	<R>
IC61017	MB89363BPF	IC	1	<R>
IC61023	NJM2233BMA	IC	1	<R>
L61001	VLQEL05S470J	COIL 47UH	1	
L61002	VLQ0067	COIL	1	
L61003,04	VLP0054	COIL	2	
L61006	VLP0017	COIL	1	
L61007	VLQEL05S470J	COIL 47UH	1	
P61001	VJP3176B100	CONNECTOR (MALE)	1	
P61002	VJP3076	CONNECTOR (MALE)	1	
P61003	VJS3406D024	CONNECTOR (FEMALE)	1	
P61004	VJS3505C060	CONNECTOR (FEMALE)	1	
P61010	VJP3088	CONNECTOR (MALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q61001	MSB709-R	TRANSISTOR	1	<R>
Q61002,03	MSD601-R	TRANSISTOR	2	<R>
		RESISTORS		
R61001,02	ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	2	
R61003,04	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	2	
R61005,06	ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	2	
R61007-12	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	6	
R61014-30	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	17	
R61032,33	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R61034	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R61035	ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R61036,37	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R61038-47	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	10	
R61048,49	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R61050	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R61051-55	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	5	
R61056-63	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	8	
R61064	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R61065	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R61066-92	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	27	
R61107-13	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	7	
R61114-21	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	8	
R61122-37	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	16	
R61140-58	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	19	
R61160-79	ERJ6GEYJ331	M.RESISTOR CH1/10W 330	20	
R61183	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R61184	ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R61185	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R61186	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R61187	ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R61188	ERJ6GEYJ330	M.RESISTOR CH1/10W 33	1	
R61189	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R61190	ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R61191	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R61193-97	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
X61001	VSX0373	CRYSTAL OSCILLATOR	1	<R>
		MISCELLANEOUS		
E116	VJS2336A028	IC SOCKET	1	
	VEP06913C	P.C.BOARD W/COMPONENT		AG-7700E
		TIMECODE		
		CAPACITORS		
C68001,02	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C68003	ECEV1HVR22Q	E.CAPACITOR 50V 0.22U	1	
C68004,05	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C68006-09	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C68010,11	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	2	
C68012-16	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C68017	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C68018	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C68019	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C68020	ECEV1CV100Q	E.CAPACITOR 16V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C68021-27	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	7	
C68028	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C68029,30	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C68031	ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C68032	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C68033	ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C68034	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C68035	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C68036	ECEV1HV2R2Q	E.CAPACITOR 50V 2.2U	1	
C68037	ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C68038,39	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C68040	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C68041	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C68042	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C68043	ECHU1C102JA5	P.CAPACITOR 16V 1000P	1	
C68044	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C68045	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C68046	ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C68047	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C68048	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
D68001-05	MA151K	DIODE	5	<R>
IC68001	UPD78220GJ	IC	1	<R>
IC68002	MN51040VPI	IC	1	<R>
IC68003	MB8421-90LPF	IC	1	<R>
IC68004	M51951AML	IC	1	<R>
IC68005,06	MC74HC32AF	IC	2	<R>
IC68007	MC74HC04AF	IC	1	<R>
IC68008	MC74HC32AF	IC	1	<R>
IC68009	MC74HC373AF	IC	1	<R>
IC68011	MC74HC4053F	IC	1	<R>
IC68012	AN1319S	IC	1	<R>
IC68013,14	MC74HC4053F	IC	2	<R>
IC68015	TC74HC221AF	IC	1	<R>
IC68016	AN6912S	IC	1	<R>
IC68017	UPD65005X436	IC	1	<R>
IS68010	VJS3427X028	CONNECTOR (FEMALE)	1	
IS68010	VSI1404C	IC	1	
L68001	VLQ0319K221	COIL 220UH	1	
P68001	VJP3507C060	CONNECTOR (MALE)	1	
Q68001	MSB709-R	TRANSISTOR	1	<R>
		RESISTORS		
R68001-03	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	3	
R68004	ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R68005,06	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R68007	ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R68008	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R68009	ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R68010	ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R68011,12	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R68013	ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R68014	ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R68015,16	ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	2	
R68017	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R68018	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R68019	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R68020	ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R68021	ERJ6GEYJ394	M.RESISTOR CH1/10W 390K	1	
R68022	ERJ6GEYG132	M.RESISTOR CH1/10W 1.3K	1	
R68023	ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R68024,25	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R68026	ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R68027	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R68028	ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R68029	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R68030	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R68031	ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R68032	VRE0034E202	M.RESISTOR CH 1/10W 2K	1	
R68033	VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R68034	VRE0034E183	M.RESISTOR CH 1/10W 18K	1	
R68035	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R68037	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R68038	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R68039	ERJ6GEYG103	M.RESISTOR CH1/10W 10K	1	
R68040	ERJ6GEYG331	M.RESISTOR CH1/10W 330	1	
R68041	ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R68042,43	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R68044	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R68045	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R68046,47	ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	2	
R68048	ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R68049	ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R68050	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
SW68001	VSS0342	SWITCH	1	<R>
VR68001	VRV0161B203	V.RESISTOR 20K	1	
W68001	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
W68004,05	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
W68008	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
W68010	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
W68012-17	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	6	
X68001	VSX0499	CRYSTAL OSCILLATOR	1	<R>
X68002	VSX0498	CRYSTAL OSCILLATOR	1	<R>
X68003	VSX0615	CRYSTAL OSCILLATOR	1	<R>
	VEP06913D	P.C.BOARD W/COMPONENT		AG-760E
		TIMECODE		
		CAPACITORS		
C68001,02	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C68003	ECEV1HVR22Q	E.CAPACITOR 50V 0.22U	1	
C68004,05	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C68006-09	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C68010,11	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	2	
C68012-16	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C68017	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C68018	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C68019	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C68020	ECEV1CV100Q	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C68021-27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	7	
C68028		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C68029,30		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C68034		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C68035		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C68037		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C68038,39		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C68040		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C68046		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C68047		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C68048		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
D68001,02		MA151K	DIODE	2	<R>
D68004,05		MA151K	DIODE	2	<R>
IC68001		UPD78220GJ	IC	1	<R>
IC68002		MN51040VPI	IC	1	<R>
IC68003		MB8421-90LPF	IC	1	<R>
IC68004		M51951AML	IC	1	<R>
IC68005,06		MC74HC32AF	IC	2	<R>
IC68007		MC74HC04AF	IC	1	<R>
IC68008		MC74HC32AF	IC	1	<R>
IC68009		MC74HC373AF	IC	1	<R>
IC68011		MC74HC4053F	IC	1	<R>
IC68012		AN1319S	IC	1	<R>
IC68013,14		MC74HC4053F	IC	2	<R>
IC68016		AN6912S	IC	1	<R>
IS68010		VJS3427X028	CONNECTOR (FEMALE)	1	
IS68010		VSI1404C	IC	1	
P68001		VJP3507C060	CONNECTOR (MALE)	1	
			RESISTORS		
R68001-03		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	3	
R68004		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R68005,06		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R68007		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R68008		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R68009		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R68010		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R68011,12		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R68013		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R68014		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R68018		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R68019		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R68020		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R68021		ERJ6GEYJ394	M.RESISTOR CH1/10W 390K	1	
R68022		ERJ6GEYG132	M.RESISTOR CH1/10W 1.3K	1	
R68023		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R68024,25		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R68026		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R68027		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R68028		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R68029		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R68030		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R68031		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R68038		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R68039		ERJ6GEYG103	M.RESISTOR CH1/10W 10K	1	
R68040		ERJ6GEYG331	M.RESISTOR CH1/10W 330	1	
R68041		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R68042,43		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R68044		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R68045		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R68046,47		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R68048		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R68050		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
W68001		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
W68004,05		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
W68008		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
W68010		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
W68012-17		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	6	
X68001		VSX0499	CRYSTAL OSCILLATOR	1	<R>
X68002		VSX0498	CRYSTAL OSCILLATOR	1	<R>
X68003		VSX0615	CRYSTAL OSCILLATOR	1	<R>
		VEP03B42A	P.C.BOARD W/COMPONENT		AG-7700E ONLY
			VIDEO REC		
		VEP00V96A	P.C.BOARD W/COMPONENT		ON VEP03B42A
			CF SUB		
			CAPACITORS		
C9001		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C9002		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C9003		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C9004		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C9005		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C9006		ECEV0JV220Q	E.CAPACITOR 6.3V 22U	1	
C9007		ECEV1HV010Q	E.CAPACITOR 50V 1U	1	
C9008,09		ECEV1HV3R3Q	E.CAPACITOR 50V 3.3U	2	
C9010-12		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	3	
C9013		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C9014,15		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C9016		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9031		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C9032		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C9033		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C9034		ECCF1H470JC4	C.CAPACITOR 50V 47P	1	
C9057		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9092,93		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C9094		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C9095		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9096		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C9098,99		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C9101		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C9102		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9103		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C9104		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C9106		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C9107		ECEV1HV010Q	E.CAPACITOR 50V 1U	1	
C9108,09		ECEV1HV3R3Q	E.CAPACITOR 50V 3.3U	2	
C9110		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C9111,12		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	2	
C9113		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C9114		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C9115		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9116		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C9119		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C9120		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9122		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C9123		ECEV0GV101Q	E.CAPACITOR 4V 100U	1	
C9124		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C9126		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C9128		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C9131		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C9133		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C9134		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C9135		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C9136,37		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C9138		ECCF1H470JC4	C.CAPACITOR 50V 47P	1	
C9152		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C9185		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9189		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9193		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9194		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C9195		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9196		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C9198,99		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C9201		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C9202		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C9203		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9204		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9205		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9208-10		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	3	
C9212		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9213		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C9215		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9223		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9233		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9235		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9243		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9245		ECUM1H123KBN	C.CAPACITOR CH 50V 0.012U	1	
C9252		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C9285		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C9286		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C9287		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C9289		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9290		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9293		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C9295		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9310		ECUM1H470JCN	C.CAPACITOR 50V 47P	1	
C9314		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9316		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C9317		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C9318		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C9322		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9323		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9324		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C9325		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9330		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9331		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C9332		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9333		ECEV0JV220Q	E.CAPACITOR 6.3V 22U	1	
C9334,35		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	2	
C9336		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C9337		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C9338		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C9339		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C9340,41		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C9342		ECUM1H470JCN	C.CAPACITOR 50V 47P	1	
C9343		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9345		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9385		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C9395		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C9401		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9402		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9403		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9404		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9405		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9406		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C9408,09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C9411-13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C9414		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9415		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9416		ECEV1CV220Q	E.CAPACITOR 16V 22U	1	
C9417		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C9418		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C9420		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9421		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C9434,35		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C9438		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C9439		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C9440		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C9445,46		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C9501		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9502		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9503		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9504		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9505		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9506		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9601		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9602,03		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C9604		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9606-13		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C9615		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C9617-21		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C9650		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9651,52		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C9653		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C9654		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C9655		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C9656-58		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C9659		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C9670		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9676		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9680		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C9691		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C9692		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C9693		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C9694		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C9697		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
D9111,12		MA151K	DIODE	2	<R>
D9201		MA151K	DIODE	1	<R>
D9301,02		MA151K	DIODE	2	<R>
D9401		MA151K	DIODE	1	<R>
D9501		11EQS04	DIODE	1	<R>
D9655		MA704	DIODE	1	<R>
DL9201		VLD0265	DELAY	1	
DL9202		VLD0266	DELAY	1	
FL9003		VLF0932	FILTER	1	
FL9101		VLF0639	FILTER	1	
FL9102		ELB4M022	FILTER	1	
FL9103		VLF0932	FILTER	1	
FL9302		VLF1048	FILTER	1	
FL9401		VLF1132	FILTER	1	
FL9601		VLF1016A223	FILTER	1	
IC9011		TC7S08F	IC	1	<R>
IC9012		NJM082BM	IC	1	<R>
IC9013		MC14577CP	IC	1	<R>
IC9014		TC74HC221AF	IC	1	<R>
IC9015		AN3916	IC	1	<R>
IC9016		TC7S66F	IC	1	<R>
IC9017		TC7S04F	IC	1	<R>
IC9021		NJM78L05UA	IC	1	<R>
IC9035		TC7S08F	IC	1	<R>
IC9101		TC4W53F	IC	1	<R>
IC9102		TC74HC221AF	IC	1	<R>
IC9103		MC14577CP	IC	1	<R>
IC9104		TC4S584F	IC	1	<R>
IC9105		TC74HC123AF	IC	1	<R>
IC9106		TC7S08F	IC	1	<R>
IC9112		NJM082BM	IC	1	<R>
IC9113		MC14577CP	IC	1	<R>
IC9114		TC74HC221AF	IC	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC9115		AN3916	IC	1	<R>
IC9121		NJM78L05UA	IC	1	<R>
IC9201		TC7S04F	IC	1	<R>
IC9202		TC7S66F	IC	1	<R>
IC9203		LM324NS	IC	1	<R>
IC9204		TC7S66F	IC	1	<R>
IC9209		MC14577CP	IC	1	<R>
IC9212		TK16031M	IC	1	<R>
IC9222		TK16031M	IC	1	<R>
IC9302		AN6367S	IC	1	<R>
IC9310		NJM2234MA	IC	1	<R>
IC9401		AN614	IC	1	<R>
IC9403		TC4W53F	IC	1	<R>
IC9404		SN74LS221NS	IC	1	<R>
IC9405		TA75W558FU	IC	1	<R>
IC9406		TA75S393F85	IC	1	<R>
IC9409		TC7S04F	IC	1	<R>
IC9410		MC14538BF	IC	1	<R>
IC9411		MC14013BF	IC	1	<R>
IC9412		MC14040BF	IC	1	<R>
IC9413		MC14538BF	IC	1	<R>
IC9417		MC14013BF	IC	1	<R>
IC9419		TC4S30F	IC	1	<R>
IC9601		CXD2105AQ	IC	1	<R>
IC9602		SN74LS221NS	IC	1	<R>
IC9603		AN78L05	IC	1	<R>
IC9606		TC7WU04F	IC	1	<R>
IC9655		CXD1175AM	IC	1	<R>
IC9691		MC74HC74AF	IC	1	<R>
L9002,03		VLQ0319K101	COIL 100UH	2	
L9010		VLQ0163J221	COIL 220UH	1	
L9102,03		VLQ0319K101	COIL 100UH	2	
L9105,06		VLQ0163J270	COIL 27UH	2	
L9110		VLQ0163J221	COIL 220UH	1	
L9225		VLQ0319K101	COIL 100UH	1	
L9227		VLQ0163J180	COIL 18UH	1	
L9228		VLQ0163J150	COIL 15UH	1	
L9235		VLQ0319K101	COIL 100UH	1	
L9304		VLQ0319K101	COIL 100UH	1	
L9328		VLQ0163J150	COIL 15UH	1	
L9329		VLQ0163J180	COIL 18UH	1	
L9402		VLQ0319K101	COIL 100UH	1	
L9404,05		VLQ0319K101	COIL 100UH	2	
L9501		VLP0133	COIL	1	
L9602		VLQ0319K101	COIL 100UH	1	
L9691,92		VLQ0163J2R7	COIL 2.7UH	2	
L9693		VLQ0163J151	COIL 150UH	1	
P9001		VJP1148	CONNECTOR (MALE)	1	
P9501,02		VJS2907D018	CONNECTOR (FEMALE)	2	
P9503		VJP1246T	CONNECTOR (MALE)	1	
Q9008		MSB709-R	TRANSISTOR	1	<R>
Q9018		MSD601-R	TRANSISTOR	1	<R>
Q9019		2SK198-R	TRANSISTOR	1	<R>
Q9020		MSB709-R	TRANSISTOR	1	<R>
Q9034		MSD601-R	TRANSISTOR	1	<R>
Q9101,02		MSB709-R	TRANSISTOR	2	<R>
Q9103		XN4601	TRANSISTOR	1	<R>
Q9104		MSD601-R	TRANSISTOR	1	<R>
Q9107		MSD601-R	TRANSISTOR	1	<R>
Q9108-10		MSB709-R	TRANSISTOR	3	<R>
Q9118		MSD601-R	TRANSISTOR	1	<R>
Q9119		2SK198-R	TRANSISTOR	1	<R>
Q9134		MSD601-R	TRANSISTOR	1	<R>
Q9202		MSD601-R	TRANSISTOR	1	<R>
Q9207		MSD601-R	TRANSISTOR	1	<R>
Q9221		MSD601-R	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q9319,20		MSC2295-B	TRANSISTOR	2	<R>
Q9321		MSD601-R	TRANSISTOR	1	<R>
Q9322		MSB709-R	TRANSISTOR	1	<R>
Q9324,25		MSD601-R	TRANSISTOR	2	<R>
Q9326		MSC2295-B	TRANSISTOR	1	<R>
Q9401		MSD601-R	TRANSISTOR	1	<R>
Q9691		MSB709-R	TRANSISTOR	1	<R>
QR9101		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR9307		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR9316		MRN1402	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R9001		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9003		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R9004		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R9005		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R9006		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9023		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R9031,32		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R9035		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R9036,37		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R9038		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R9039		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R9040		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9041		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R9042		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R9043,44		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R9045		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R9046		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R9047		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R9048		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R9050		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R9054		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R9058		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R9069		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R9070		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R9071,72		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	2	
R9073		ERJ6GEYJ184	M.RESISTOR CH1/10W 180K	1	
R9074		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R9075		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R9083		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R9085		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R9096		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9101,02		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	2	
R9103		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R9104		ERJ6GEYJ394	M.RESISTOR CH1/10W 390K	1	
R9105		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R9106,07		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R9108,09		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R9110		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R9111		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9112		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R9113		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R9114		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R9115		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R9116		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R9117,18		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R9120		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9125		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9126		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R9128		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9131,32		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R9135		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R9136		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R9137		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R9138		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R9139		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R9140		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9141		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R9142		VRE0034E272	M.RESISTOR CH 1/10W 2.7K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R9143		VRE0034E102	M.RESISTOR CH 1/10W 1K	1	
R9144		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R9145		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9146		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R9147		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9148		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R9150		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R9151		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R9155		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R9156		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9166		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9169		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R9170		VRE0034E561	M.RESISTOR CH 1/10W 560	1	
R9171		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R9172		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R9173		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R9174		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R9175		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R9176,77		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	2	
R9178		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R9179		ERJ6GEYJ820	M.RESISTOR CH1/10W 82	1	
R9180		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R9194		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9196		VRE0034E241	M.RESISTOR CH 1/10W 240	1	
R9201		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R9202		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9203		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9204		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R9205		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R9206		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R9207		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9208		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R9210		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9211		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R9212		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R9214		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R9215		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9218		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R9219		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R9220		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9221		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R9222		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R9225		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R9226		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R9229		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R9232		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9234		VRE0034E751	M.RESISTOR CH 1/10W 750	1	
R9235		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R9236		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R9237		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R9238		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R9240		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9241		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R9243		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R9244		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R9246		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R9247		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R9250		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R9251		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R9252		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R9255		ERJ6GEYJ362	M.RESISTOR CH1/10W 3.6K	1	
R9256		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R9260		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R9261		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R9262		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R9266		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R9267		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R9271		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R9272		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R9276		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R9281		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R9282		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9283		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R9284		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R9285		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R9301		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R9302,03		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R9304		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R9305		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R9306-08		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	3	
R9321		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R9322		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9330		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9342		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R9343		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R9353		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9356		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9357		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R9359		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R9360		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R9361		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R9363		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R9364		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R9365		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R9366,67		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R9368		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9369		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R9370		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R9371		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9372		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R9377		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9378		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R9379		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R9388		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9389		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9391		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9396		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9401		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R9402		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9403		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R9404		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R9405		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R9406		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9407		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9409		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R9410		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R9411,12		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R9413		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R9414		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9415		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R9416		ERJ6GEYJ912	M.RESISTOR CH1/10W 9.1K	1	
R9417		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R9418		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R9419		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R9420		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R9421,22		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R9423		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R9424		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R9425		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R9426		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R9429		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R9454		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R9455		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R9456		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R9457		ERJ6GEYJ433	M.RESISTOR CH1/10W 43K	1	
R9458		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R9459		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R9460		ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R9602		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9604,05		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R9607		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R9608		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9610		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9612		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R9613		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R9614		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9615		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R9616		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R9617		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R9618		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R9619		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R9620		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9623		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9625,26		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R9628		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9631		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9633		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9634		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R9636		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R9641		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9643		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R9644		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R9651		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9652		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R9653,54		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R9655		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9657		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R9658		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R9660		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9661		ERJ6GEYJ270	M.RESISTOR CH1/10W 27	1	
R9663		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R9664		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9665		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R9670		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9689		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R9691		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R9693		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R9694		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9695		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R9696		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R9697		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R9698		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R9699		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
VR9001		EVN32CA00B24	V.RESISTOR 20K	1	
VR9106		EVN32CA00B24	V.RESISTOR 20K	1	
VR9201		EVN32CA00B14	V.RESISTOR 10K	1	
VR9202		EVN32CA00B13	V.RESISTOR 1K	1	
VR9212		EVN32CA00B14	V.RESISTOR 10K	1	
VR9222		EVN32CA00B14	V.RESISTOR 10K	1	
VR9232		EVN32CA00B13	V.RESISTOR 1K	1	
VR9301,02		EVM7DGA00B53	V.RESISTOR 5K	2	
X9301		VSX0406	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E114		VSC2483	SHIELD CASE	1	
E115		VSC2485	SHIELD CASE	1	
		VEP03B44A	P.C.BOARD W/COMPONENT		AG-7700E
			VIDEO YC		
			CAPACITORS		
C3001		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3003-06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3008,09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3010		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3012		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3013		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3014		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C3020-22		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3023		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3024		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3025		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C3026		ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	1	
C3027		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C3028,29		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	2	
C3030		ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	1	
C3032		ECUM1H221GCN	C.CAPACITOR CH 50V 220P	1	
C3033-35		ECUM1H271GCN	C.CAPACITOR CH 50V 270P	3	
C3038		ECQP1H561JZ	P.CAPACITOR 50V 560P	1	
C3039		ECUM1H820GCN	C.CAPACITOR CH 50V 82P	1	
C3040		ECQP1H911GZ	P.CAPACITOR 50V 910P	1	
C3042		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3043		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3044		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3045		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3047		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3048		ECUM1H470JCN	C.CAPACITOR 50V 47P	1	
C3049		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3051-55		ECEV1CV100Q	E.CAPACITOR 16V 10U	5	
C3056-61		ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	6	
C3062		ECEV0GV470Q	E.CAPACITOR 4V 47U	1	
C3063		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3064		ECEV0JV220Q	E.CAPACITOR 6.3V 22U	1	
C3065-69		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	5	
C3070		ECEV1HV010Q	E.CAPACITOR 50V 1U	1	
C3072-76		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3078		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3079		ECEV1CV470Q	E.CAPACITOR 16V 47U	1	
C3080-83		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	4	
C3084,85		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3086,87		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C3088		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3089		ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	1	
C3091,92		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3093		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3094,95		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C3096		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3097		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3100		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3101		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3102		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3202		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C3203-05		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3206		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3207		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3208		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C3209		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3210		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C3211		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C3212		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3213		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3214-16		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3217		ECEV1HV3R3Q	E.CAPACITOR 50V 3.3U	1	
C3218,19		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C3220		ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	1	
C3221		ECEV1HV2R2Q	E.CAPACITOR 50V 2.2U	1	
C3222		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3223		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C3224		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3225		ECEV1HV010Q	E.CAPACITOR 50V 1U	1	
C3226		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3227		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3228,29		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	2	
C3230		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3231		ECUM1H393KBN	C.CAPACITOR 50V 0.039M	1	
C3233		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3234		ECUM1H090DCN	C.CAPACITOR CH 50V 9P	1	
C3235		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3236		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3237		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3239,40		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3241-44		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3245		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3246		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3247		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C3248		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3249		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3250-52		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	3	
C3253		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3254		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C3255		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3256		ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3257,58		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3259		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3261		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3263-65		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3266		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3267		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3268		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3269-71		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3273		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3274		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3275		ECEV1HV2R2Q	E.CAPACITOR 50V 2.2U	1	
C3276		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3277		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3278		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3279		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3281		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3282		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3401		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3402-06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3407		ECUM1H090DCN	C.CAPACITOR CH 50V 9P	1	
C3408		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3409		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3410		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3411		ECEV1HV2R2Q	E.CAPACITOR 50V 2.2U	1	
C3412		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C3413-17		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3418		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C3419		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3420		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3421		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3422		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3423		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3424		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3425		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3426,27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3428		ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	1	
C3429		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3430		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3431,32		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3433		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C3434		ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	1	
C3435,36		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3437-39		ECEV1CV100Q	E.CAPACITOR 16V 10U	3	
C3440		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3441		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3442		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3443		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3444		ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	1	
C3445-47		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3448		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3449,50		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C3451		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3452		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3453-55		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3456		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3457		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3459		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3460		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3461		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3462		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3463		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3464		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3465		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3466,67		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C3468		ECQV1H105JZ	P.CAPACITOR 50V 1U	1	
C3469		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3470		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3471		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3472		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3473		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3474		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3475,76		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3477		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3478		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3479		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3480-83		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3484,85		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C3486		ECQV1H105JZ	P.CAPACITOR 50V 1U	1	
C3487		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3488-92		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3493		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3497-99		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3500		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3501		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3502		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3503		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3504,05		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3507-09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3510		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3511,12		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3513		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3514		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3515		ECEV1CV470Q	E.CAPACITOR 16V 47U	1	
C3516		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3517		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3520-22		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C3523		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C3524		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C3525		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3527		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3528		ECUM1H470JCN	C.CAPACITOR 50V 47P	1	
C3529		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C3530		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3531		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
D3001		MA3091-M	DIODE	1	<R>
D3002,03		MA151K	DIODE	2	<R>
D3005-07		MA151K	DIODE	3	<R>
D3202		MA151WA	DIODE	1	<R>
D3203-05		MA151K	DIODE	3	<R>
D3206		MA151WA	DIODE	1	<R>
D3208		MA151K	DIODE	1	<R>
D3401		MA151K	DIODE	1	<R>
D3402		MA3091-M	DIODE	1	<R>
D3403		MA28W-B	DIODE	1	<R>
D3501		MA151K	DIODE	1	<R>
D3502		MA151WA	DIODE	1	<R>
D3503		MA151K	DIODE	1	<R>
DL3201		VLD0272	DELAY	1	
FL3003		VLF1129	FILTER	1	
FL3005		VLF1127	FILTER	1	
FL3006		VLF1128	FILTER	1	
FL3201		VLF1134	FILTER	1	
FL3202		VLF1133	FILTER	1	
FL3203		VLD0147	FILTER	1	
FL3204		VLF1130	FILTER	1	
FL3205		VLF1131	FILTER	1	
FL3401		VLF1131	FILTER	1	
FL3402		VLD0089	FILTER	1	
FL3403,04		VLF1129	FILTER	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
FL3405,06		VLF1133	FILTER	2	
FL3501		VLF1132	FILTER	1	
IC3001		TC7S04F	IC	1	<R>
IC3002		AN3293S	IC	1	<R>
IC3003		MSM6871RS	IC	1	<R>
IC3004		AN3255FAP	IC	1	<R>
IC3006-08		NJM2233BMA	IC	3	<R>
IC3009		TC4W53F	IC	1	<R>
IC3011		AN78N05	IC	1	<R>
IC3012		NJM78L05UA	IC	1	<R>
IC3201		M52056FP	IC	1	<R>
IC3205-07		TC7S04F	IC	3	<R>
IC3208,09		TC7S66F	IC	2	<R>
IC3210		TC7S04F	IC	1	<R>
IC3211		MC74HC4053F	IC	1	<R>
IC3212		TK16031M	IC	1	<R>
IC3213		MC14577CP	IC	1	<R>
IC3214,15		NJM78L05UA	IC	2	<R>
IC3401		NJM2233BMA	IC	1	<R>
IC3402		AN3495S	IC	1	<R>
IC3403,04		MSM6871RS	IC	2	<R>
IC3406		M52093SP	IC	1	<R>
IC3407		SN74LS221NS	IC	1	<R>
IC3408		MC14577CP	IC	1	<R>
IC3409		NJM2234MA	IC	1	<R>
IC3410		AN78N05	IC	1	<R>
IC3411		VCR0373	IC	1	<R>
IC3412		NJM2233BMA	IC	1	<R>
IC3501		AN614	IC	1	<R>
IC3502		MC74HC4053F	IC	1	<R>
IC3503		TA75W558FU	IC	1	<R>
IC3504		TA75S393F85	IC	1	<R>
IC3506		MC14538BF	IC	1	<R>
IC3507		MC14013BF	IC	1	<R>
IC3508		MC14040BF	IC	1	<R>
IC3509		MC14538BF	IC	1	<R>
IC3510		TC4S30F	IC	1	<R>
IC3511		MC14013BF	IC	1	<R>
IC3512		TC4S30F	IC	1	<R>
L3001		VLQ0163J390	COIL 39UH	1	
L3002		VLQ0319K101	COIL 100UH	1	
L3004		VLQ0319K101	COIL 100UH	1	
L3005		VLP0083	COIL	1	
L3007,08		VLQ0319K101	COIL 100UH	2	
L3011		VLQ0163J151	COIL 150UH	1	
L3201		VLQ0163J470	COIL 47UH	1	
L3202,03		VLQ0163J820	COIL 82UH	2	
L3204		VLQ0163J180	COIL 18UH	1	
L3206		VLQ0319K101	COIL 100UH	1	
L3207		VLQ0163J330	COIL 33UH	1	
L3208		VLQ0163J150	COIL 15UH	1	
L3209-11		VLQ0319K101	COIL 100UH	3	
L3401		VLQ0319K101	COIL 100UH	1	
L3402		VLP0083	COIL	1	
L3403		VLQ0163J680	COIL 68UH	1	
L3404		VLQ0163J151	COIL 150UH	1	
L3405-07		VLQ0319K101	COIL 100UH	3	
L3409,10		VLQ0163J150	COIL 15UH	2	
L3411-13		VLQ0319K101	COIL 100UH	3	
L3415,16		VLQ0163J6R8	COIL 6.8UH	2	
L3501-03		VLQ0319K101	COIL 100UH	3	
L3504		VLQ0163J390	COIL 39UH	1	
P3601,02		VJS2848D018	CONNECTOR (FEMALE)	2	
P3603		VJP1233T	CONNECTOR (MALE)	1	
P3632		VJP3176B064	CONNECTOR (MALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q3002		MSD601-R	TRANSISTOR	1	<R>
Q3003-05		MSC2295-B	TRANSISTOR	3	<R>
Q3006		MSD601-R	TRANSISTOR	1	<R>
Q3007		MSB709-R	TRANSISTOR	1	<R>
Q3008,09		XN4501	TRANSISTOR	2	<R>
Q3010,11		2SA1022-C	TRANSISTOR	2	<R>
Q3012		MSD601-R	TRANSISTOR	1	<R>
Q3013		MSB709-R	TRANSISTOR	1	<R>
Q3014		MSD601-R	TRANSISTOR	1	<R>
Q3015		MSB709-R	TRANSISTOR	1	<R>
Q3016		MSD601-R	TRANSISTOR	1	<R>
Q3201,02		MSB709-R	TRANSISTOR	2	<R>
Q3203-07		MSD601-R	TRANSISTOR	5	<R>
Q3208,09		MSC2295-B	TRANSISTOR	2	<R>
Q3210		MSB709-R	TRANSISTOR	1	<R>
Q3211		XN1504	TRANSISTOR	1	<R>
Q3212		MSB709-R	TRANSISTOR	1	<R>
Q3401-03		MSD601-R	TRANSISTOR	3	<R>
Q3404-08		MSC2295-B	TRANSISTOR	5	<R>
Q3410		MSB709-R	TRANSISTOR	1	<R>
Q3411		MSC2295-B	TRANSISTOR	1	<R>
Q3501		MSD601-R	TRANSISTOR	1	<R>
Q3502,03		MSB709-R	TRANSISTOR	2	<R>
Q3504		MSC2295-B	TRANSISTOR	1	<R>
QR3001		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR3003		MRN2403	TRANSISTOR-RESISTOR	1	<R>
QR3006		UN1212	TRANSISTOR-RESISTOR	1	<R>
QR3201,02		MRN1403	TRANSISTOR-RESISTOR	2	<R>
QR3203		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR3206,07		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR3402,03		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR3500		MRN1403	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R3001		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3002-09		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	8	
R3010-12		VRE0034E102	M.RESISTOR CH 1/10W 1K	3	
R3013		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3014		VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R3015		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3016		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3017		ERJ6GEYG151	M.RESISTOR CH1/10W 150	1	
R3018		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3019		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3020,21		VRE0034E152	M.RESISTOR CH 1/10W 1.5K	2	
R3022		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3023		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R3024		ERJ6GEYJ184	M.RESISTOR CH1/10W 180K	1	
R3026		ERJ6GEYJ225	M.RESISTOR CH1/10W 2.2M	1	
R3027,28		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R3029		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3030		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3032		VRE0034E241	M.RESISTOR CH 1/10W 240	1	
R3033		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3034		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3035,36		VRE0034E332	M.RESISTOR CH 1/10W 3.3K	2	
R3037		VRE0034E471	M.RESISTOR CH 1/10W 470	1	
R3039		VRE0034E471	M.RESISTOR CH 1/10W 470	1	
R3040,41		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	2	
R3042		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R3043		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3044		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3045		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3047		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3048		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3050		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3051		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3052		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3053		ERJ6GEYJ330	M.RESISTOR CH1/10W 33	1	
R3054		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3055		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3056		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3057		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3058		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3061		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3062		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3063		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3064		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R3066		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3069		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3070		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3071,72		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	2	
R3073		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R3074		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3075		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3077		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3078		VRE0034E392	M.RESISTOR CH 1/10W 3.9K	1	
R3079		VRE0034E333	M.RESISTOR CH 1/10W 33K	1	
R3080		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3081		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3082		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3083		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3084		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R3085		VRE0034E333	M.RESISTOR CH 1/10W 33K	1	
R3086		VRE0034E153	M.RESISTOR CH 1/10W 15K	1	
R3087		VRE0034E223	M.RESISTOR CH 1/10W 22K	1	
R3088,89		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	2	
R3090		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3091		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3092		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3093-95		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	3	
R3096		ERJ6GEYJ621	M.RESISTOR CH1/10W 620	1	
R3097		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3098		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3099		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3102		VRE0034E333	M.RESISTOR CH 1/10W 33K	1	
R3103		VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R3104		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3105		VRE0034E183	M.RESISTOR CH 1/10W 18K	1	
R3107		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3113		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3201,02		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	2	
R3203		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R3205		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3206		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3208		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3209,10		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R3211		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3212		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R3214,15		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3216		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3218		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R3219		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3220		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3221		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R3222		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3223		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3224		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3225		ERJ6GEYJ512	M.RESISTOR CH1/10W 5.1K	1	
R3226		ERJ6GEYJ513	M.RESISTOR CH1/10W 51K	1	
R3227,28		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R3229		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3230		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3231,32		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3233		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3234,35		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R3236-39		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	4	
R3240		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3241,42		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3243		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3244		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3245,46		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	2	
R3247		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3249		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3250		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3251		ERJ6GEYJ220	M.RESISTOR CH1/10W 22	1	
R3252		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3253		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R3254		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3255,56		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3262,63		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3264		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3265		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3266		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3267		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3268		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R3269,70		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3271,72		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	2	
R3273		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3274,75		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	2	
R3276		ERJ6GEYJ511	M.RESISTOR CH1/10W 510	1	
R3277		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3278		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3279,80		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3281		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3282		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3284		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3285		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R3286		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3287,88		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3289		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3290		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3291		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3292,93		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R3295		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3297		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R3298		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3299,00		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3301		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3400		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3401		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3402		ERDS2T0	C.RESISTOR 1/4W 0	1	
R3403,04		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3405		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3407		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3408		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3409		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3410		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3411		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3412		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R3413		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3414		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3415		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R3416		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R3417		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3418		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3419		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3420		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3421		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3422		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3423		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3424		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3425		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3426		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3427,28		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3429		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R3430		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3431		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3432		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R3433		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3434		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3435		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3436,37		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R3438		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3439		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R3440		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3441		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3445,46		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3449	ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3450,51	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3452	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3455	ERJ6GEYJ824	M.RESISTOR CH1/10W 820K	1	
R3457,58	ERJ6GEYJ331	M.RESISTOR CH1/10W 330	2	
R3460	ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R3461	ERJ6GEYJ824	M.RESISTOR CH1/10W 820K	1	
R3462	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3463	ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3465	ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3467	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3468	ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3470	ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3471	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3472	ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3473	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3474	ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3475	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3476	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3477-79	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	3	
R3484	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3485	ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3486	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3487	ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3488	ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R3489	ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R3490	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3491	ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R3492,93	VRE0034E681	M.RESISTOR CH 1/10W 680	2	
R3494	VRE0034E122	M.RESISTOR CH 1/10W 1.2K	1	
R3495	VRE0034E201	M.RESISTOR CH 1/10W 200	1	
R3496	ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3498,99	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	2	
R3501	ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3502	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3503	ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3504	ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3506	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3507	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3508	ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3509	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3510	ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3511,12	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3513	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3514	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3515	ERJ6GEYJ912	M.RESISTOR CH1/10W 9.1K	1	
R3516	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3517	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3518	ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R3519	ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3520,21	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3529	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3530	ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3531	ERJ6GEYJ433	M.RESISTOR CH1/10W 43K	1	
R3532	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3533	ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R3534	ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R3536	ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3537	ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3538	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3540	ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	
R3541	ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3542	ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	
R3543	ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3544	ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3545,46	ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R3547	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3548	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3549	ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R3550,51	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
VC3201	ECV1ZW60X60	TRIMMER	1	
VC3202	ECV1ZW20X60	TRIMMER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VR3001,02	EVN32CA00B53	V.RESISTOR 5K	2	
VR3003	EVM7JGA00B13	V.RESISTOR 1K	1	
VR3004,05	EVN32CA00B53	V.RESISTOR 5K	2	
VR3006	EVM7DGA00B52	V.RESISTOR 500	1	
VR3007	EVM7DGA00B53	V.RESISTOR 5K	1	
VR3201,02	EVN32CA00B15	V.RESISTOR 100K	2	
VR3203	EVN32CA00B14	V.RESISTOR 10K	1	
VR3206	EVM7DGA00B14	V.RESISTOR 10K	1	
VR3207	EVM7DGA00B24	V.RESISTOR 20K	1	
VR3401-03	EVM7JGA00B13	V.RESISTOR 1K	3	
VR3404	EVN32CA00B13	V.RESISTOR 1K	1	
VR3405	EVM7DGA00B13	V.RESISTOR 1K	1	
VR3406	EVM7DGA00B54	V.RESISTOR 50K	1	
VR3407	EVM7DGA00B23	V.RESISTOR 2K	1	
VR3408	EVM7DGA00B54	V.RESISTOR 50K	1	
VR3410	EVN32CA00B54	V.RESISTOR 50K	1	
X3201	VSX0406	CRYSTAL OSCILLATOR	1	<R>
X3401	VSX0316	CRYSTAL OSCILLATOR	1	<R>
		MISCELLANEOUS		
E48	VMZ2228	INSULATER	1	
E49	VSC3973	SHIELD PLATE	1	
E50	XTV3+6FFR	SCREW	2	
	VEP03B44B	P.C.BOARD W/COMPONENT		AG-7600E
		VIDEO YC		
		CAPACITORS		
C3001	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3003-06	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3008,09	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3010	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3012	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3013	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3014	ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C3020-22	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3023	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3024	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3025	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C3026	ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	1	
C3027	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C3028,29	ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	2	
C3030	ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	1	
C3032	ECUM1H221GCN	C.CAPACITOR CH 50V 220P	1	
C3033-35	ECUM1H271GCN	C.CAPACITOR CH 50V 270P	3	
C3038	ECQP1H561JZ	P.CAPACITOR 50V 560P	1	
C3039	ECUM1H820GCN	C.CAPACITOR CH 50V 82P	1	
C3040	ECQP1H911GZ	P.CAPACITOR 50V 910P	1	
C3042	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3043	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3044	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3045	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3047	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3048	ECUM1H470JCN	C.CAPACITOR 50V 47P	1	
C3049	ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3051-55	ECEV1CV100Q	E.CAPACITOR 16V 10U	5	
C3056-61	ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	6	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3062		ECEV0GV470Q	E.CAPACITOR 4V 47U	1	
C3063		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3064		ECEV0JV220Q	E.CAPACITOR 6.3V 22U	1	
C3065-69		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	5	
C3070		ECEV1HV010Q	E.CAPACITOR 50V 1U	1	
C3072-76		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3078		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3079		ECEV1CV470Q	E.CAPACITOR 16V 47U	1	
C3080-83		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	4	
C3084,85		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3086,87		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C3088		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3089		ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	1	
C3091,92		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3093		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3094,95		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C3096		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3097		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3100		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3101		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3102		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3202		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C3203-05		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3206		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3207		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3208		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C3209		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3210		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C3211		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C3212		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3213		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3214-16		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3217		ECEV1HV3R3Q	E.CAPACITOR 50V 3.3U	1	
C3218,19		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C3220		ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	1	
C3221		ECEV1HV2R2Q	E.CAPACITOR 50V 2.2U	1	
C3222		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3223		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C3224		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3225		ECEV1HV010Q	E.CAPACITOR 50V 1U	1	
C3226		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3227		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3228,29		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	2	
C3230		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3231		ECUM1H393KBN	C.CAPACITOR 50V 0.039M	1	
C3233		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3234		ECUM1H090DCN	C.CAPACITOR CH 50V 9P	1	
C3235		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3236		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3237		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3239,40		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3241-44		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3245		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3246		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3248		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3249		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3250-52		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	3	
C3253		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3254		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C3255		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3256		ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3257,58		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3259		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3261		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3263-65		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3266		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3267		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3268		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3269-71		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3273		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3274		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3275		ECEV1HV2R2Q	E.CAPACITOR 50V 2.2U	1	
C3276		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3277		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3278		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3279		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3281		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3282		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3401		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3402-06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3407		ECUM1H090DCN	C.CAPACITOR CH 50V 9P	1	
C3408		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3409		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3410		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3411		ECEV1HV2R2Q	E.CAPACITOR 50V 2.2U	1	
C3412		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C3413-17		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3418		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C3419		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3420		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3421		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3422		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3423		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3424		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3425		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3426,27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3428		ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	1	
C3429		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3430		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3431,32		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3433		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C3434		ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	1	
C3435,36		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3437-39		ECEV1CV100Q	E.CAPACITOR 16V 10U	3	
C3440		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3441		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3442		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3443		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3444		ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	1	
C3445-47		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3448		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3449,50		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C3451		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3452		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3453-55		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3456		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3457		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3459		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3460		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3461		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3462		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3463		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3464		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3465		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3466,67		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C3468		ECQV1H105JZ	P.CAPACITOR 50V 1U	1	
C3469		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3470		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3471		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3472		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3473		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3474		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3475,76		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3477		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3478		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3479		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3480-83		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3484,85		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C3486		ECQV1H105JZ	P.CAPACITOR 50V 1U	1	
C3487		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3488-92		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3493		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3497-99		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3500		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3501		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3502		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3503		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3504,05		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3507-09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3510		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3511,12		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3513		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3514		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3515		ECEV1CV470Q	E.CAPACITOR 16V 47U	1	
C3516		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3517		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3520-22		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C3523		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C3524		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C3525		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3527		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3528		ECUM1H470JCN	C.CAPACITOR 50V 47P	1	
C3529		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C3530		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3531		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
D3001		MA3091-M	DIODE	1	<R>
D3002,03		MA151K	DIODE	2	<R>
D3005-07		MA151K	DIODE	3	<R>
D3202		MA151WA	DIODE	1	<R>
D3203-05		MA151K	DIODE	3	<R>
D3206		MA151WA	DIODE	1	<R>
D3208		MA151K	DIODE	1	<R>
D3401		MA151K	DIODE	1	<R>
D3402		MA3091-M	DIODE	1	<R>
D3403		MA28W-B	DIODE	1	<R>
D3501		MA151K	DIODE	1	<R>
D3502		MA151WA	DIODE	1	<R>
D3503		MA151K	DIODE	1	<R>
DL3201		VLD0272	DELAY	1	
FL3003		VLF1129	FILTER	1	
FL3005		VLF1127	FILTER	1	
FL3006		VLF1128	FILTER	1	
FL3201		VLF1134	FILTER	1	
FL3202		VLF1133	FILTER	1	
FL3203		VLD0147	FILTER	1	
FL3204		VLF1130	FILTER	1	
FL3205		VLF1131	FILTER	1	
FL3401		VLF1131	FILTER	1	
FL3402		VLD0089	FILTER	1	
FL3403,04		VLF1129	FILTER	2	
FL3405,06		VLF1133	FILTER	2	
FL3501		VLF1132	FILTER	1	
IC3001		TC7S04F	IC	1	<R>
IC3002		AN3293S	IC	1	<R>
IC3003		MSM6871RS	IC	1	<R>
IC3004		AN3255FAP	IC	1	<R>
IC3006-08		NJM2233BMA	IC	3	<R>
IC3009		TC4W53F	IC	1	<R>
IC3011		AN78N05	IC	1	<R>
IC3012		NJM78L05UA	IC	1	<R>
IC3201		M52056FP	IC	1	<R>
IC3205-07		TC7S04F	IC	3	<R>
IC3208,09		TC7S66F	IC	2	<R>
IC3210		TC7S04F	IC	1	<R>
IC3211		MC74HC4053F	IC	1	<R>
IC3212		TK16031M	IC	1	<R>
IC3213		MC14577CP	IC	1	<R>
IC3214,15		NJM78L05UA	IC	2	<R>
IC3401		NJM2233BMA	IC	1	<R>
IC3402		AN3495S	IC	1	<R>
IC3403,04		MSM6871RS	IC	2	<R>
IC3406		M52093SP	IC	1	<R>
IC3407		SN74LS221NS	IC	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC3408		MC14577CP	IC	1	<R>
IC3409		NJM2234MA	IC	1	<R>
IC3410		AN78N05	IC	1	<R>
IC3411		VCR0373	IC	1	<R>
IC3412		NJM2233BMA	IC	1	<R>
IC3501		AN614	IC	1	<R>
IC3502		MC74HC4053F	IC	1	<R>
IC3503		TA75W558FU	IC	1	<R>
IC3504		TA75S393F85	IC	1	<R>
IC3506		MC14538BF	IC	1	<R>
IC3507		MC14013BF	IC	1	<R>
IC3508		MC14040BF	IC	1	<R>
IC3509		MC14538BF	IC	1	<R>
IC3510		TC4S30F	IC	1	<R>
IC3511		MC14013BF	IC	1	<R>
IC3512		TC4S30F	IC	1	<R>
L3001		VLQ0163J390	COIL 39UH	1	
L3002		VLQ0319K101	COIL 100UH	1	
L3004		VLQ0319K101	COIL 100UH	1	
L3005		VLP0083	COIL	1	
L3007,08		VLQ0319K101	COIL 100UH	2	
L3011		VLQ0163J151	COIL 150UH	1	
L3201		VLQ0163J470	COIL 47UH	1	
L3202,03		VLQ0163J820	COIL 82UH	2	
L3204		VLQ0163J180	COIL 18UH	1	
L3206		VLQ0319K101	COIL 100UH	1	
L3207		VLQ0163J330	COIL 33UH	1	
L3208		VLQ0163J150	COIL 15UH	1	
L3209-11		VLQ0319K101	COIL 100UH	3	
L3401		VLQ0319K101	COIL 100UH	1	
L3402		VLP0083	COIL	1	
L3403		VLQ0163J680	COIL 68UH	1	
L3404		VLQ0163J151	COIL 150UH	1	
L3405-07		VLQ0319K101	COIL 100UH	3	
L3409,10		VLQ0163J150	COIL 15UH	2	
L3411-13		VLQ0319K101	COIL 100UH	3	
L3416		VLQ0163J6R8	COIL 6.8UH	1	
L3501-03		VLQ0319K101	COIL 100UH	3	
L3504		VLQ0163J390	COIL 39UH	1	
P3603		VJP1233T	CONNECTOR (MALE)	1	
P3632		VJP3176B064	CONNECTOR (MALE)	1	
Q3002		MSD601-R	TRANSISTOR	1	<R>
Q3003-05		MSC2295-B	TRANSISTOR	3	<R>
Q3006		MSD601-R	TRANSISTOR	1	<R>
Q3007		MSB709-R	TRANSISTOR	1	<R>
Q3008,09		XN4501	TRANSISTOR	2	<R>
Q3010,11		2SA1022-C	TRANSISTOR	2	<R>
Q3012		MSD601-R	TRANSISTOR	1	<R>
Q3013		MSB709-R	TRANSISTOR	1	<R>
Q3014		MSD601-R	TRANSISTOR	1	<R>
Q3015		MSB709-R	TRANSISTOR	1	<R>
Q3016		MSD601-R	TRANSISTOR	1	<R>
Q3201,02		MSB709-R	TRANSISTOR	2	<R>
Q3203-07		MSD601-R	TRANSISTOR	5	<R>
Q3208,09		MSC2295-B	TRANSISTOR	2	<R>
Q3210		MSB709-R	TRANSISTOR	1	<R>
Q3211		XN1504	TRANSISTOR	1	<R>
Q3212		MSB709-R	TRANSISTOR	1	<R>
Q3401-03		MSD601-R	TRANSISTOR	3	<R>
Q3404-08		MSC2295-B	TRANSISTOR	5	<R>
Q3410		MSB709-R	TRANSISTOR	1	<R>
Q3411		MSC2295-B	TRANSISTOR	1	<R>
Q3501		MSD601-R	TRANSISTOR	1	<R>
Q3502,03		MSB709-R	TRANSISTOR	2	<R>
Q3504		MSC2295-B	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR3001		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR3003		MRN2403	TRANSISTOR-RESISTOR	1	<R>
QR3006		UN1212	TRANSISTOR-RESISTOR	1	<R>
QR3201,02		MRN1403	TRANSISTOR-RESISTOR	2	<R>
QR3203		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR3206,07		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR3402,03		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR3500		MRN1403	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R3001		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3002-09		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	8	
R3010-12		VRE0034E102	M.RESISTOR CH 1/10W 1K	3	
R3013		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3014		VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R3015		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3016		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3017		ERJ6GEYG151	M.RESISTOR CH1/10W 150	1	
R3018		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3019		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3020,21		VRE0034E152	M.RESISTOR CH 1/10W 1.5K	2	
R3022		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3023		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R3024		ERJ6GEYJ184	M.RESISTOR CH1/10W 180K	1	
R3026		ERJ6GEYJ225	M.RESISTOR CH1/10W 2.2M	1	
R3027,28		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R3029		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3030		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3032		VRE0034E241	M.RESISTOR CH 1/10W 240	1	
R3033		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3034		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3035,36		VRE0034E332	M.RESISTOR CH 1/10W 3.3K	2	
R3037		VRE0034E471	M.RESISTOR CH 1/10W 470	1	
R3039		VRE0034E471	M.RESISTOR CH 1/10W 470	1	
R3040,41		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	2	
R3042		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R3043		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3044		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3045		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3047		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3048		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3050		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3051		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3052		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3053		ERJ6GEYJ330	M.RESISTOR CH1/10W 33	1	
R3054		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3055		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3056		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3057		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3058		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3061		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3062		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3063		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3064		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R3066		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3069		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3070		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3071,72		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	2	
R3073		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R3074		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3075		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3077		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3078		VRE0034E392	M.RESISTOR CH 1/10W 3.9K	1	
R3079		VRE0034E333	M.RESISTOR CH 1/10W 33K	1	
R3080		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3081		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3082		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3083		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3084		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R3085		VRE0034E333	M.RESISTOR CH 1/10W 33K	1	
R3086		VRE0034E153	M.RESISTOR CH 1/10W 15K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3087		VRE0034E223	M.RESISTOR CH 1/10W 22K	1	
R3088,89		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	2	
R3090		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3091		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3092		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3093-95		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	3	
R3096		ERJ6GEYJ621	M.RESISTOR CH1/10W 620	1	
R3097		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3098		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3099		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3102		VRE0034E333	M.RESISTOR CH 1/10W 33K	1	
R3103		VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R3104		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3105		VRE0034E183	M.RESISTOR CH 1/10W 18K	1	
R3107		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3112		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3113		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3201,02		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	2	
R3203		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R3205		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3206		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3208		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3209,10		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R3211		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3212		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R3214,15		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3216		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3218		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R3219		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3220		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3221		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R3222		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3223		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3224		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3225		ERJ6GEYJ512	M.RESISTOR CH1/10W 5.1K	1	
R3226		ERJ6GEYJ513	M.RESISTOR CH1/10W 51K	1	
R3227,28		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R3229		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3230		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3231,32		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3233		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3234,35		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R3236-39		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	4	
R3240		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3241,42		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3243		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3244		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3245,46		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	2	
R3247		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3249		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3250		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3251		ERJ6GEYJ220	M.RESISTOR CH1/10W 22	1	
R3252		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3253		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R3254		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3255,56		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3262,63		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3264		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3265		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3266		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3267		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3268		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R3269,70		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3271,72		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	2	
R3273		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3274,75		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	2	
R3276		ERJ6GEYJ511	M.RESISTOR CH1/10W 510	1	
R3277		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3278		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3279,80		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3281		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3282		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3284		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3285		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R3286		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3287,88		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3289		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3290		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3291		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3292,93		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R3295		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3297		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R3298		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3299,00		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3301		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3400		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3401		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3402		ERDS2T0	C.RESISTOR 1/4W 0	1	
R3403,04		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3405		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3407		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3408		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3409		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3410		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3411		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3412		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R3413		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3414		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3415		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R3416		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R3417		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3418		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3419		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3420		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3421		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3422		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3423		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3424		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3425		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3426		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3427,28		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3429		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R3430		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3431		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3432		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R3433		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3434		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3435		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3436,37		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R3438		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3439		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R3440		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3441		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3445,46		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3449		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3450,51		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3452		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3455		ERJ6GEYJ824	M.RESISTOR CH1/10W 820K	1	
R3457,58		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	2	
R3460		ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R3461		ERJ6GEYJ824	M.RESISTOR CH1/10W 820K	1	
R3462		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3463		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3465		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3467		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3468		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3470		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3471		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3472		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3473		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3474		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3475		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3476		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3477-79		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	3	
R3484		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3485		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3486		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3487		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3488		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R3489		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3490		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3491		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R3492,93		VRE0034E681	M.RESISTOR CH 1/10W 680	2	
R3494		VRE0034E122	M.RESISTOR CH 1/10W 1.2K	1	
R3495		VRE0034E201	M.RESISTOR CH 1/10W 200	1	
R3496		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3498,99		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	2	
R3501		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3502		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3503		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3504		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3506		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3507		ERJ6GEYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3508		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3509		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3510		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3511,12		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3513		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3514		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3515		ERJ6GEYJ912	M.RESISTOR CH1/10W 9.1K	1	
R3516		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3517		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3518		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R3519		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3520,21		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3529		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3530		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3531		ERJ6GEYJ433	M.RESISTOR CH1/10W 43K	1	
R3532		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3533		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R3534		ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R3536		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3537		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3538		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3540		ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	
R3541		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3542		ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	
R3543		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3544		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3545,46		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R3547		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3548		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3549		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R3550,51		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
VC3201		ECV1ZW60X60	TRIMMER	1	
VR3003		EVM7JGA00B13	V.RESISTOR 1K	1	
VR3004,05		EVN32CA00B53	V.RESISTOR 5K	2	
VR3006		EVM7DGA00B52	V.RESISTOR 500	1	
VR3201,02		EVN32CA00B15	V.RESISTOR 100K	2	
VR3203		EVN32CA00B14	V.RESISTOR 10K	1	
VR3206		EVM7DGA00B14	V.RESISTOR 10K	1	
VR3207		EVM7DGA00B24	V.RESISTOR 20K	1	
VR3401-03		EVM7JGA00B13	V.RESISTOR 1K	3	
VR3404		EVN32CA00B13	V.RESISTOR 1K	1	
VR3406		EVM7DGA00B54	V.RESISTOR 50K	1	
VR3407		EVM7DGA00B23	V.RESISTOR 2K	1	
VR3408		EVM7DGA00B54	V.RESISTOR 50K	1	
VR3410		EVN32CA00B54	V.RESISTOR 50K	1	
X3201		VSX0406	CRYSTAL OSCILLATOR	1	<R>
X3401		VSX0316	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E48		VMZ2228	INSULATER	1	
E49		VSC3973	SHIELD PLATE	1	
E50		XTV3+6FFR	SCREW	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP01609A	P.C.BOARD W/COMPONENT POWER (1)		
		CAPACITORS		
C1001,02	VCK0083	CAPACITOR	2	<!>
C1003	ECQU2A224MN	P.CAPACITOR 100V 0.1U	1	<!>
C1004,05	VCK0044	CAPACITOR	2	<!>
C1008	ECEC2GA221C	E.CAPACITOR 400V 220U	1	
C1009	ECA1CFZ221L	E.CAPACITOR 16V 220U	1	
C1011	ECA1HFZ470	E.CAPACITOR 50V 47U	1	
C1012	ECQB1H681JF	P.CAPACITOR 50V 680P	1	
C1013	ECQE6473MZ	P.CAPACITOR	1	
C1014	VCK0106K331	CAPACITOR	1	
C1015	ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C1016	ECQB1H123JF	P.CAPACITOR 50V 0.012U	1	
C1017	ECQV1H274JZ	P.CAPACITOR 50V 0.27U	1	
C1019	ECA1HXLV2R2	E.CAPACITOR 50V 2.2U	1	
C1025	ECEA1JFE560	E.CAPACITOR 56U	1	
C1026	ECA1VFQ681	E.CAPACITOR 35V 680U	1	
C1027	ECA1EFZ122L	E.CAPACITOR 25V 1200U	1	
C1028,29	ECA1AFZ222	E.CAPACITOR 10V 2200U	2	
C1030	ECA1CFZ821	E.CAPACITOR 16V 820U	1	
C1031	ECA1EFZ331L	E.CAPACITOR 25V 330U	1	
C1032	ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C1033	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1034	ECA1CXLV470	E.CAPACITOR 16V 47U	1	
C1035	ECA1CFQ152	E.CAPACITOR 16V 1500U	1	
C1036	ECQV1H564JZ	P.CAPACITOR 50V 0.56U	1	
C1037-39	ECCD2H101J	C.CAPACITOR 500V 100P	3	
D1001	D3SBA60	DIODE	1	<!><R>
D1002	RD62E	DIODE	1	<R>
D1003	ERA22-02	DIODE	1	<R>
D1004	MA723	DIODE	1	<R>
D1005	MA185	DIODE	1	<R>
D1006	MA165	DIODE	1	<R>
D1007	MA185	DIODE	1	<R>
D1008	MA4100M	DIODE	1	<R>
D1009	MA178	DIODE	1	<R>
D1010	AP01C	DIODE	1	<R>
D1011,12	RD91E	DIODE	2	<R>
D1014	8P4SMA	DIODE	1	<R>
D1015	RD62E	DIODE	1	<R>
D1016	VSD0001	DIODE	1	<R>
D1017,18	FMLG12SP	DIODE	2	<R>
D1019	FMB-24H	DIODE	1	<R>
D1020	31DQ04	DIODE	1	<R>
D1021	RL2ZP	DIODE	1	<R>
F1001	XBA2C31TH15	FUSE	1	<!>
IC1001	STRS6708LF	IC	1	<!><R>
IC1002	TL431CLP	IC	1	<R>
IC1003	M51953BL	IC	1	<R>
L1001	ELF18D606F	COIL	1	<!>
L1006	VLQ0354	COIL	1	
L1007	VLQ0410	COIL	1	
L1008	VLQ0605	COIL	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L1009	VLQ0410	COIL	1	
P1001	VJP2639	CONNECTOR (MALE)	1	
P1002	VJP1153	CONNECTOR (MALE)	1	
P1003	VJP3088	CONNECTOR (MALE)	1	
Q1001-03	2SD636	TRANSISTOR	3	<R>
Q1004	PS2561L1V1	TRANSISTOR	1	<!><R>
Q1006	2SD1474	TRANSISTOR	1	<R>
QR1001	UN114	TRANSISTOR-RESISTOR	1	<R>
QR1002	UN1214	TRANSISTOR-RESISTOR	1	<R>
		RESISTORS		
R1001	VSF0078	FUSE	1	<!>
R1002-05	ERDS2FJ683	C.RESISTOR 1/4W 68K	4	
R1006	ERDS2FJ2R7	C.RESISTOR 1/4W 2.7	1	
R1007	ERDS2FJ270	C.RESISTOR 1/4W 27	1	
R1009	ERDS2FJ1R5	C.RESISTOR 1/4W 1.5	1	
R1010	ERX2SJR43	M.RESISTOR 2W 0.43	1	
R1011	ERDS2FJ562	C.RESISTOR 1/4W 5.6K	1	
R1012	ERDS2FJ822	C.RESISTOR 1/4W 8.2K	1	
R1013	ERDS2FJ471	C.RESISTOR 1/4W 470	1	
R1014	ERDS2FJ331	C.RESISTOR 1/4W 330	1	
R1015	ERDS2FJ104	C.RESISTOR 1/4W 100K	1	
R1016	ERDS2FJ103	C.RESISTOR 1/4W 10K	1	
R1017	ERDS2FJ104	C.RESISTOR 1/4W 100K	1	
R1018	ERDS2FJ473	C.RESISTOR 1/4W 47K	1	
R1019,20	ERDS2FJ224	C.RESISTOR 1/4W 220K	2	
R1021	ERG3SJ683	M.RESISTOR 3W 68K	1	
R1022	ERG1SJ561	M.RESISTOR 1W 560	1	
R1023	ERDS2FJ562	C.RESISTOR 1/4W 5.6K	1	
R1024	ERDS2FJ334	C.RESISTOR 1/4W 330K	1	
R1025	ERDS2T0	C.RESISTOR 1/4W 0	1	
R1027,28	ERDS2FJ683	C.RESISTOR 1/4W 68K	2	
R1031	ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R1032	ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R1033	ERDS2T0	C.RESISTOR 1/4W 0	1	
R1034	ER0S2CKF2701	M.RESISTOR 1/4W 2.7K	1	
R1035	ER0S2CKF2201	M.RESISTOR 1/4W 2.2K	1	
R1036	ER0S2CKG6202	M.RESISTOR 1/4W 62K	1	
R1038	ERX3SJ1R0	M.RESISTOR 3W 4	1	
T1001	VLT0739	TRANSFORMER	1	<!>
		MISCELLANEOUS		
E35	VJF0318	FUSE HOLDER	2	
E36	VMZ0429	FUSE COVER	1	<!>
E37	VMZ0965	CAPACITOR COVER	2	<!>
E44	VMZ1798	BARRIER	1	<!>
E45	VMZ1608	CAPACITOR COVER	2	<!>
E51	VSC3434	SHIELD CASE	1	
E52	XYN3+F8	SCREW	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP04328A	P.C.BOARD W/COMPONENT		AG-7700E
			METER VR		
D4201-06		LN440YCPUVT1	DIODE	6	<R>
D4207,08		MA165	DIODE	2	<R>
P4201		VJP3081	CONNECTOR (MALE)	1	
			RESISTORS		
R4201,02		ERDS2TJ151	C.RESISTOR 1/4W 150	2	
R4203		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R4204		ERDS2TJ272	C.RESISTOR 1/4W 2.7K	1	
R4205		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R4206		ERDS2TJ272	C.RESISTOR 1/4W 2.7K	1	
R4207,08		EROS2CKG5100	M.RESISTOR 1/4W 510	2	
R4209,10		ERDS2TJ151	C.RESISTOR 1/4W 150	2	
VR4201-04		EVJ9MA040B14	V.RESISTOR 10K	4	
			MISCELLANEOUS		
E54		VMP3282	METER ANGLE	1	
E55		VGF0245	METER HOLDER	2	
E56		VSE0117	CH1 METER	1	<R>
E57		VSE0115	CH2/VIDEO METER	1	<R>
		VEP04328B	P.C.BOARD W/COMPONENT		AG-7600E
			METER VR		
D4201-06		LN440YCPUVT1	DIODE	6	<R>
P4201		VJP3529	CONNECTOR (MALE)	1	
			RESISTORS		
R4209,10		ERDS2TJ151	C.RESISTOR 1/4W 150	2	
			MISCELLANEOUS		
E54		VMP3282	METER ANGLE	1	
E55		VGF0245	METER HOLDER	2	
E56		VSE0117	CH1 METER	1	<R>
E57		VSE0115	CH2/VIDEO METER	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP04418C	P.C.BOARD W/COMPONENT		AG-7700E
			FRONT JACK		
			CAPACITORS		
C4901,02		ECKF1H101KB	C.CAPACITOR 50V 100P	2	
C4910		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
D4901		MA165	DIODE	1	<R>
L4901,02		VLQEL05S101J	COIL 100UH	2	
P4901		VJP3529	CONNECTOR (MALE)	1	
P4902		VJP3076	CONNECTOR (MALE)	1	
			RESISTORS		
R4901		ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R4902		ERDS2TJ822	C.RESISTOR 1/4W 8.2K	1	
VR4901		EVUNCAF15B23	V.RESISTOR 2K	1	
VR4902		EVU55AF15B15	V.RESISTOR 100K	1	
VR4903		EVU023015B14	V.RESISTOR 10K	1	
			MISCELLANEOUS		
E59		VMP4231	JACK ANGLE (1)	1	
E60		VGU6484	ROTARY KNOB	3	
E61		VMP4434	FRONT JACK ANGLE (2)	1	
		VEP04418D	P.C.BOARD W/COMPONENT		AG-7600E
			FRONT JACK		
			CAPACITORS		
C4901,02		ECKF1H101KB	C.CAPACITOR 50V 100P	2	
C4910		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
L4901,02		VLQEL05S101J	COIL 100UH	2	
P4901		VJP3529	CONNECTOR (MALE)	1	
P4902		VJP3076	CONNECTOR (MALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR4901		EVUNCAF15B23	V.RESISTOR 2K	1	
VR4902		EVU55AF15B15	V.RESISTOR 100K	1	
			MISCELLANEOUS		
		VMP4231	JACK ANGLE	1	
		VGU6484	ROTARY KNOB	2	
		VMP4434	FRONT JACK ANGLE	1	
		VEP00V07A	P.C.BOARD W/COMPONENT		AG-7700E
			MOTHER		
P910		VJP1147	CONNECTOR (MALE)	1	
P921-23		VJP3203A020Z	CONNECTOR (MALE)	3	
P931		VJS2898A100	CONNECTOR (FEMALE)	1	
P932		VJS2898A064	CONNECTOR (FEMALE)	1	
P935		VJS2898A100	CONNECTOR (FEMALE)	1	
P941,42		VJS2898A064	CONNECTOR (FEMALE)	2	
P961-64		VJS3152	CONNECTOR (FEMALE)	4	
P971-74		VJS3490A13	CONNECTOR (FEMALE)	4	
			MISCELLANEOUS		
E38		VMP4222	CONNECTOR ANGLE (1)	1	
E39		VMP4223	CONNECTOR ANGLE (2)	1	
E43		VMX0985	SPACER	1	
E42		VJF0456	BINDER	3	
E41		XYE3+EF8FZ	SCREW	17	
E40		XTV26+8J	SCREW	10	
		VEP00V07B	P.C.BOARD W/COMPONENT		AG-7600E
			MOTHER		
P910		VJP1147	CONNECTOR (MALE)	1	
P921-23		VJP3203A020Z	CONNECTOR (MALE)	3	
P931		VJS2898A100	CONNECTOR (FEMALE)	1	
P932		VJS2898A064	CONNECTOR (FEMALE)	1	
P935		VJS2898A100	CONNECTOR (FEMALE)	1	
P941,42		VJS2898A064	CONNECTOR (FEMALE)	2	
P961-64		VJS3152	CONNECTOR (FEMALE)	4	
P971-74		VJS3490A13	CONNECTOR (FEMALE)	4	
			MISCELLANEOUS		
E38		VMP4222	CONNECTOR ANGLE (1)	1	
E39		VMP4223	CONNECTOR ANGLE (2)	1	
E43		VMX0985	SPACER	1	
E42		VJF0456	BINDER	3	
E41		XYE3+EF8FZ	SCREW	17	
E40		XTV26+8J	SCREW	10	
		VEP01478C	P.C.BOARD W/COMPONENT		
			POWER CONNECTOR		
			CAPACITORS		
C1101,02		ECQU2A224MN	P.CAPACITOR 100V 0.1U	2	<!>
L1101		ELF18D605	COIL	1	
P1101		VJP2638	CONNECTOR (MALE)	1	<!>
P1102		VJS2985	CONNECTOR (FEMALE)	1	<!>
			RESISTORS		
R1101		ERC12GM334	S.RESISTOR 1/2W 330K	1	<!>
			MISCELLANEOUS		
E46		VMZ1305	CAPACITOR COVER	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP02417A	P.C.BOARD W/COMPONENT		
			REEL DRIVE		
			CAPACITORS		
C2701		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2702		ECEA1EKA470	E.CAPACITOR 25V 47U	1	
C2703		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C2704		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C2705		ECQV1H564JZ	P.CAPACITOR 50V 0.56U	1	
C2706-08		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C2709-12		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	4	
C2713		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C2714		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C2715-17		ECEA0JKA470	E.CAPACITOR 6.3V 47U	3	
C2718		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2719		ECEA1EKA470	E.CAPACITOR 25V 47U	1	
C2720		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C2721		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C2722		ECQV1H564JZ	P.CAPACITOR 50V 0.56U	1	
C2723-25		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C2726-29		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	4	
D2701		MA151K	DIODE	1	<R>
D2702		MA151WK	DIODE	1	<R>
D2703		MA151K	DIODE	1	<R>
D2704		MA153	DIODE	1	<R>
D2705		MA151K	DIODE	1	<R>
D2706		MA151WK	DIODE	1	<R>
D2707		MA151K	DIODE	1	<R>
D2708		MA153	DIODE	1	<R>
IC2701,02		XRA6435S	IC	2	<R>
IC2703		LM358PS	IC	1	<R>
IC2704		MC14053BF	IC	1	<R>
IC2705		LM339NS	IC	1	<R>
IC2706		LM358PS	IC	1	<R>
J2701		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
L2701-04		VLQ0460	COIL	4	
P2701		VJS3135	CONNECTOR (FEMALE)	1	
P2702		VJS2149W	CONNECTOR (FEMALE)	1	
P2703		VJS3202B008	CONNECTOR (FEMALE)	1	
P2704,05		VJS1412	CONNECTOR (FEMALE)	2	
Q2701		MSD601-R	TRANSISTOR	1	<R>
QR2701		MRN1404	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R2701		ERJ6GEYG102	M.RESISTOR CH1/10W 1K	1	
R2702		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R2703		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2704		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R2705		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R2706		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R2707,08		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2709		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R2710		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R2711		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2712		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R2713,14		ERDS2TJ330	C.RESISTOR 1/4W 33	2	
R2715		ERX12SJ1R0	M.RESISTOR 1/2W 1.0	1	
R2716		ERDS2TJ330	C.RESISTOR 1/4W 33	1	
R2717		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R2718		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R2719		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R2720		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R2721		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R2722,23		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R2724		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R2725,26		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R2727		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R2728		ERJ6GEYJ823	M.RESISTOR CH1/10W 82K	1	
R2729		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2730		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R2731		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R2732		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2733		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R2734,35		ERDS2TJ330	C.RESISTOR 1/4W 33	2	
R2736		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2737		ERDS2TJ330	C.RESISTOR 1/4W 33	1	
R2738		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R2739		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R2740		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R2741,42		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R2743		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
			MISCELLANEOUS		
E47		VMX2183	P.C.B. SPACER	1	
E96		VWJ04CN150CA	FLAT CABLE	1	
E97		VWJ18AW105M1	FLEXIBLE CABLE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP03B43A	P.C.BOARD W/COMPONENT		AG-7700E
		VIDEO I/O		
		CAPACITORS		
C3001-03	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C3004	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C3005	ECEV1HVR47Q	E.CAPACITOR 50V 0.47U	1	
C3006	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3007	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3008	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3009	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3010	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3011	ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C3012	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3013	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3014	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3015	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3016	ECEV1HV3R3Q	E.CAPACITOR 50V 3.3U	1	
C3017	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3018-20	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C3021	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3022-24	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C3025	ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3026	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3027	ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3028-30	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C3032,33	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C3034	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3035	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C3037	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3038	ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3039,40	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C3041	ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3042	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C3043	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3044	ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3045-48	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C3049	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3050,51	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C3052	ECEV0JV220Q	E.CAPACITOR 6.3V 22U	1	
C3053	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3080	ERJ6GEYJ221	C.RESISTOR 1/10W 220	1	
C3081	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3083	ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3085	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C3086	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3087	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3088	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3102	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C3103	ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C3105,06	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C3107	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3108	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3109,10	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C3111	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3112-14	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3115-20	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	6	
C3121	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C3122,23	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	2	
C3124	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3125-27	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C3129-32	ECEV0JV470Q	E.CAPACITOR 6.3V 47U	4	
C3133	ECEV1HV010Q	E.CAPACITOR 50V 1U	1	
C3135,36	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3138	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3139	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3140	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3141	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3201	ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3202	ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3203	ECHU1C392GB	P.CAPACITOR 16V 3900P	1	
C3204	ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C3205	ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C3206	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3207	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3208	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3209	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3210	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3211	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3212	ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3213	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3214,15	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C3216	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3217,18	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C3220	ECEV0GV101Q	E.CAPACITOR 4V 100U	1	
C3221	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3223	ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C3224	ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3225	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3226,27	ECEV0JV470Q	E.CAPACITOR 6.3V 47U	2	
C3228	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3229,30	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	2	
C3231	ECEV0JV330Q	E.CAPACITOR 6.3V 33U	1	
C3232	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3233	ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	1	
C3234,35	ECEV0JV470Q	E.CAPACITOR 6.3V 47U	2	
C3237	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3238	ECEV1EN4R7Q	E.CAPACITOR 25V 4.7U	1	
C3239-41	ECEV0JV470Q	E.CAPACITOR 6.3V 47U	3	
C3242	ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3244,45	ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	2	
C3246	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3247	ECEV1HVR47Q	E.CAPACITOR 50V 0.47U	1	
C3248	ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3251	ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C3253,54	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C3255	ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3256-58	ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	3	
C3259	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3260	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C3261	ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3268	ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3269	ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3297	ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3298	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3299	ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3305	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3306-18	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	13	
C3319-23	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	5	
C3325	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3326	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3327	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3328	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3329	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C3330	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C3331	ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C3332	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C3334	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3336	ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3337	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3338-41	ECEV0JV470Q	E.CAPACITOR 6.3V 47U	4	
C3342	ECEV1HV3R3Q	E.CAPACITOR 50V 3.3U	1	
C3343	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3344	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3345,46	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C3347	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3401	ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3402	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3404-06	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C3443-46	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C3447,48	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	2	
C3449-65	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	17	
C3466	ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3467	ECEV1HV2R2Q	E.CAPACITOR 50V 2.2U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3468-71		ECEV0JV220Q	E.CAPACITOR 6.3V 22U	4	
C3472		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3473		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3474		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C3475		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3476		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3478		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3479		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3501		ECEV0JV101Q	E.CAPACITOR 6.3V 100U	1	
C3502		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3503,04		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	2	
C3505		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3506		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3507		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3508		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
D3001-03		MA151K	DIODE	3	<R>
D3201,02		1SS283	DIODE	2	<R>
D3203		MA151K	DIODE	1	<R>
D3206		MA165	DIODE	1	<R>
D3401		MA28W-B	DIODE	1	<R>
D3501		11EQS04	DIODE	1	<R>
FL3001		ELB4R031	FILTER	1	
FL3101		VLF1050	FILTER	1	
FL3102,03		VLF1155	FILTER	2	
FL3201		VLF1045	FILTER	1	
FL3202		VLF1156	FILTER	1	
FL3203		VLF1157	FILTER	1	
FL3204		VLF1156	FILTER	1	
FL3205		VLF1157	FILTER	1	
FL3301		ELB4H068	FILTER	1	
FL3401		VLF0526	FILTER	1	
FL3402-04		VLF0523	FILTER	3	
FL3405		VLF0526	FILTER	1	
FL3406		VLF1156	FILTER	1	
FL3407		VLF1157	FILTER	1	
IC3001		MC74HC86F	IC	1	<R>
IC3002		TC7S04F	IC	1	<R>
IC3003		NJM78L05UA	IC	1	<R>
IC3004		M52083FP	IC	1	<R>
IC3005		LM324NS	IC	1	<R>
IC3006		AN6308S	IC	1	<R>
IC3007		MC14052BF	IC	1	<R>
IC3010		AN78N05	IC	1	<R>
IC3101		NJM2234MA	IC	1	<R>
IC3102		TL8823F	IC	1	<R>
IC3103		NJM2233BMA	IC	1	<R>
IC3201		NJM592M8	IC	1	<R>
IC3202		MC14577CP	IC	1	<R>
IC3203		NJM2235MA	IC	1	<R>
IC3204		TC4W53F	IC	1	<R>
IC3205		TA75S01F85	IC	1	<R>
IC3206		AN3296S	IC	1	<R>
IC3207		NJM78L05UA	IC	1	<R>
IC3208		TK16031M	IC	1	<R>
IC3301		NJM2234MA	IC	1	<R>
IC3302,03		AN6308S	IC	2	<R>
IC3401		MC74HC157AF	IC	1	<R>
IC3402,03		MC74HC163AF	IC	2	<R>
IC3404		MC74HC32AF	IC	1	<R>
IC3405		MC74HC74AF	IC	1	<R>
IC3406		TC7WU04F	IC	1	<R>
IC3407		MC74HC08AF	IC	1	<R>
IC3408		MC74HC74AF	IC	1	<R>
IC3409		MC74HC04AF	IC	1	<R>
IC3410		MN4538BS	IC	1	<R>
IC3411		HM63021FP	IC	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC3412		MC74HC541AF	IC	1	<R>
IC3413		MB40778PF	IC	1	<R>
IC3414		MC74HC32AF	IC	1	<R>
IC3416		TC4S30F	IC	1	<R>
IC3417		MC14577CP	IC	1	<R>
IC3418		CXD1175AM	IC	1	<R>
IC3419		MC74HC74AF	IC	1	<R>
IC3420		TC7S08F	IC	1	<R>
IC3421		TC7S04F	IC	1	<R>
L3001		VLQ0163J181	COIL 180UH	1	
L3002		VLQ0163J390	COIL 39UH	1	
L3003		VLQ0163J330	COIL 33UH	1	
L3006		VLQ0163J270	COIL 27UH	1	
L3007,08		VLQ0163J330	COIL 33UH	2	
L3009		VLQ0163J100	COIL 10UH	1	
L3010		VLQ0163J120	COIL 12UH	1	
L3011		VLQ0163J180	COIL 18UH	1	
L3012,13		VLQ0163J100	COIL 10UH	2	
L3014		VLQ0163J101	COIL 100UH	1	
L3015-17		VLQ0319K101	COIL 100UH	3	
L3018		VLQ0133J271	COIL 270UH	1	
L3019		VLQ0163J101	COIL 100UH	1	
L3020		VLQ0133J821	COIL 820UH	1	
L3021		VLQ0163J151	COIL 150UH	1	
L3022		VLQ0163J390	COIL 39UH	1	
L3023		VLQ0163J820	COIL 82UH	1	
L3101		VLQ0133J331	COIL 330UH	1	
L3102		VLQ0133J561	COIL 560UH	1	
L3103		VLQ0133J391	COIL 390UH	1	
L3104		VLQ0133J561	COIL 560UH	1	
L3105		VLQ0133J102	COIL 1000UH	1	
L3107		VLQ0163J151	COIL 150UH	1	
L3108		VLQ0163J220	COIL 22UH	1	
L3109,10		VLQ0163J330	COIL 33UH	2	
L3111,12		VLQ0319K101	COIL 100UH	2	
L3113		VLQ0133J681	COIL 680UH	1	
L3114		VLQ0163J150	COIL 15UH	1	
L3203		VLQEL05K271J	COIL	1	
L3205-08		VLQ0319K101	COIL 100UH	4	
L3211		VLQ0163J560	COIL 56UH	1	
L3225		VLQ0319K101	COIL 100UH	1	
L3307		VLQ0163J820	COIL 82UH	1	
L3308		VLQ0163J151	COIL 150UH	1	
L3311		VLQ0163J101	COIL 100UH	1	
L3312,13		VLQ0163J221	COIL 220UH	2	
L3314		VLQ0163J4R7	COIL 4.7UH	1	
L3315		VLQ0163J6R8	COIL 6.8UH	1	
L3316-19		VLQ0319K101	COIL 100UH	4	
L3320		VLQ0163J6R8	COIL 6.8UH	1	
L3321		VLQ0163J151	COIL 150UH	1	
L3401-05		VLQ0319K101	COIL 100UH	5	
P3002		VJP3080	CONNECTOR (MALE)	1	
P3931		VJP3176B100	CONNECTOR (MALE)	1	
Q3001		MSD601-R	TRANSISTOR	1	<R>
Q3002		2SD1328-S	TRANSISTOR	1	<R>
Q3003		2SB643	TRANSISTOR	1	<R>
Q3004		MSC2295-B	TRANSISTOR	1	<R>
Q3005		2SK374-R	TRANSISTOR	1	<R>
Q3006,07		MSD601-R	TRANSISTOR	2	<R>
Q3008,09		MSC2295-B	TRANSISTOR	2	<R>
Q3010		MSB709-R	TRANSISTOR	1	<R>
Q3011		MSC2295-B	TRANSISTOR	1	<R>
Q3013,14		MSC2295-B	TRANSISTOR	2	<R>
Q3015		MSB709-R	TRANSISTOR	1	<R>
Q3016		MSC2295-B	TRANSISTOR	1	<R>
Q3101		MSC2295-B	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q3104,05		MSC2295-B	TRANSISTOR	2	<R>
Q3106		MSB709-R	TRANSISTOR	1	<R>
Q3107		MSC2295-B	TRANSISTOR	1	<R>
Q3108		MSB709-R	TRANSISTOR	1	<R>
Q3109		MSC2295-B	TRANSISTOR	1	<R>
Q3111		MSB709-R	TRANSISTOR	1	<R>
Q3112		MSD601-R	TRANSISTOR	1	<R>
Q3113		MSC2295-B	TRANSISTOR	1	<R>
Q3114,15		MSD601-R	TRANSISTOR	2	<R>
Q3116		MSC2295-B	TRANSISTOR	1	<R>
Q3117,18		MSD601-R	TRANSISTOR	2	<R>
Q3119		MSC2295-B	TRANSISTOR	1	<R>
Q3120		MSD601-R	TRANSISTOR	1	<R>
Q3121		XN1213	TRANSISTOR	1	<R>
Q3122		MSB709-R	TRANSISTOR	1	<R>
Q3201-03		MSD601-R	TRANSISTOR	3	<R>
Q3204-08		MSC2295-B	TRANSISTOR	5	<R>
Q3210,11		MSD601-R	TRANSISTOR	2	<R>
Q3213		XN1504	TRANSISTOR	1	<R>
Q3214-17		MSD601-R	TRANSISTOR	4	<R>
Q3219		MSD601-R	TRANSISTOR	1	<R>
Q3221		MSD601-R	TRANSISTOR	1	<R>
Q3222		MSC2295-B	TRANSISTOR	1	<R>
Q3223		MSD601-R	TRANSISTOR	1	<R>
Q3301		MSD601-R	TRANSISTOR	1	<R>
Q3302		MSB709-R	TRANSISTOR	1	<R>
Q3303		MSD601-R	TRANSISTOR	1	<R>
Q3304		MSC2295-B	TRANSISTOR	1	<R>
Q3305		MSB709-R	TRANSISTOR	1	<R>
Q3306-11		MSD601-R	TRANSISTOR	6	<R>
Q3312		MSC2295-B	TRANSISTOR	1	<R>
Q3401		MSD601-R	TRANSISTOR	1	<R>
QR3001		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR3002		DTC363EK	TRANSISTOR-RESISTOR	1	<R>
QR3003,04		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR3005		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR3006		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR3009		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR3010,11		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR3102		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR3201,02		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR3401		XN4501	TRANSISTOR	1	<R>
			RESISTORS		
R3001		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R3002		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3003		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3004		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3005		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3006		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3007,08		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R3009		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3010,11		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3012		ERJ6GEYJ820	M.RESISTOR CH1/10W 82	1	
R3013		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3015		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R3016		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3018		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3019		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R3020		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R3021		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3022		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3023		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3025		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3026		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3027		ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	
R3029		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3030		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3031-33		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R3034		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3036		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3037		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3038		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R3039		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3040		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3041		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R3042		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3044-47		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	4	
R3048-50		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	3	
R3051		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3052		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3053		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R3054		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3055		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3056		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3057		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3058,59		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3060		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3061		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3065		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3067,68		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3069		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3070		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3071		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3072		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3073		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3074		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3075		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3077		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3079		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3080		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R3081		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3082		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3083		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3084		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3085		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3086		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3089		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3090		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3104-14		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	11	
R3115		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3116,17		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3118		ERJ6GEYG151	M.RESISTOR CH1/10W 150	1	
R3119-28		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	10	
R3129		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3130		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3131,32		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R3133,34		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3135		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3136-39		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	4	
R3140		ERJ6GEYJ330	M.RESISTOR CH1/10W 33	1	
R3141,42		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	2	
R3143		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3144		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R3145		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R3146		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3147		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3149,50		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	2	
R3151		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3152		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R3153		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3154		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3156		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3157,58		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	2	
R3159		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3200		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R3201,02		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3203-05		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	3	
R3206		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3207		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3208		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R3209		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3210		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3211		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3212		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3213		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3214-16		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	3	
R3217		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R3218		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3219		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3220		ERJ6GEYJ820	M.RESISTOR CH1/10W 82	1	
R3221-23		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R3224		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R3225		ERJ6GEYJ113	M.RESISTOR CH1/10W 11K	1	
R3226		ERJ6GEYJ330	M.RESISTOR CH1/10W 33	1	
R3227		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3228		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3229		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3230		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3231		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3232		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3233		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3234		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3235		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3236,37		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	2	
R3238		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3239		ERJ6GEYG151	M.RESISTOR CH1/10W 150	1	
R3240		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R3241		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3242		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3243		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3244		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3245		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3246		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3247-50		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	4	
R3252		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3254		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3255		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R3256		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3257,58		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	2	
R3259		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3260		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3261		ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	
R3262		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3263		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3264		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R3266		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3267		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3268		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3269		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3270		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3271		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3272		ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	
R3273		ERJ6GEYJ684	M.RESISTOR CH1/10W 680K	1	
R3274		ERJ6GEYJ753	M.RESISTOR CH1/10W 75K	1	
R3275		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3276		VRE0034E473	M.RESISTOR CH 1/10W 47K	1	
R3277		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3278		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3279		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3280		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3281,82		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3283		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3285		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R3286		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3287		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R3288		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3289		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3290		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3291		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3292		ERJ6GEYJ820	M.RESISTOR CH1/10W 82	1	
R3293		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3294		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3295		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3296		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3297		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3298,99		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	2	
R3300		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3302		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3305		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3306		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R3308		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3309,10		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3311		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R3312-16		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	5	
R3317		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3318		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R3319		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R3320		ERJ6GEYJ621	M.RESISTOR CH1/10W 620	1	
R3321		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3322		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3323		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3324		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3325,26		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	2	
R3327-33		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	7	
R3334,35		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R3336		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3337,38		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	2	
R3339		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3340		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3341		ERJ6GEYJ511	M.RESISTOR CH1/10W 510	1	
R3342		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R3343		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3344		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3345,46		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	2	
R3347,48		ERJ6GEYJ820	M.RESISTOR CH1/10W 82	2	
R3349		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R3351		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3352		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3353		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3354		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3355		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3357		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3358		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3359		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R3360		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3361		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3403		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3405-08		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	4	
R3409		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3411,12		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3413-16		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	4	
R3418		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3419		ERJ6GEYJ100	M.RESISTOR CH1/10W 10	1	
R3420,21		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	2	
R3422		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3423		ERJ6GEYJ564	M.RESISTOR CH1/10W 560K	1	
R3424,25		ERJ6GEYG103	M.RESISTOR CH1/10W 10K	2	
R3426		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3427		ERJ6GEYG302	M.RESISTOR CH1/10W 3K	1	
R3428		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3430-32		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	3	
R3440-44		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	5	
R3447-54		ERJ6GEYG680	M.RESISTOR CH1/10W 68	8	
R3456-60		ERJ6GEYG680	M.RESISTOR CH1/10W 68	5	
R3461		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3462		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R3463-65		ERJ6GEYG680	M.RESISTOR CH1/10W 68	3	
R3466		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3468		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3469		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3471		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3472		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3473,74		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	2	
R3475		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3476		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R3477		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3478		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3480		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R3501		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3504		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3505		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3506		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3507		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3508		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3509		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3510		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R3511		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
SW3401,02		VSR0045	SWITCH	2	<R>
VR3001,02		EVM7JGA00B24	V.RESISTOR 20K	2	
VR3003		EVN32CA00B24	V.RESISTOR 20K	1	
VR3004-08		EVN32CA00B54	V.RESISTOR 50K	5	
VR3101,02		EVM7DGA00B13	V.RESISTOR 1K	2	
VR3201,02		EVM7DGA00B13	V.RESISTOR 1K	2	
VR3301		EVM7DGA00B23	V.RESISTOR 2K	1	
VR3401		EVN32CA00B24	V.RESISTOR 20K	1	
X3401		VSX0540	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E111		VSC2051	SHIELD CASE (MIDDLE)	1	
E112		VSC2052	SHIELD CASE (LOWER)	1	
E113		ERDS2T0	CARBON RESISTOR	1	
		VEP03B43B	P.C.BOARD W/COMPONENT		AG-7600E
			VIDEO I/O		
			CAPACITORS		
C3001-03		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C3006		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3007		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3008		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3009		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3010		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3011		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C3012		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3013		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3014		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3015		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3016		ECEV1HV3R3Q	E.CAPACITOR 50V 3.3U	1	
C3017		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3018-20		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C3021		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3022-24		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C3025		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3026		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3027		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3028-30		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C3032,33		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C3034		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3035		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C3037		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3038		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3039,40		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C3041		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3042		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C3043		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3044		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3045-48		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C3049		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3050,51		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C3053		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3080		ERJ6GEYJ221	C.RESISTOR 1/10W 220	1	
C3081		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3083		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3085		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C3086		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3087		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3088		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3102		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C3103		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C3105,06		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C3107		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3108		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3109,10		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C3111		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3112-14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3115-20		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	6	
C3121		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C3122,23		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	2	
C3124		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3125-27		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C3129-32		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	4	
C3133		ECEV1HV010Q	E.CAPACITOR 50V 1U	1	
C3135,36		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3138		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3139		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3140		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3141		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3201		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3202		ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3203		ECHU1C392GB	P.CAPACITOR 16V 3900P	1	
C3204		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C3205		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C3206		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3207		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3208		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3209		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3210		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3211		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3212		ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3213		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3214,15		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C3216		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3217,18		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C3220		ECEV0GV101Q	E.CAPACITOR 4V 100U	1	
C3221		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3223		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C3224		ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3225		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3226,27		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	2	
C3228		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3229,30		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	2	
C3231		ECEV0JV330Q	E.CAPACITOR 6.3V 33U	1	
C3232		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3233		ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	1	
C3234,35		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	2	
C3237		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3239-41		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	3	
C3242		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3244,45		ECEV1EV4R7Q	E.CAPACITOR 25V 4.7U	2	
C3246		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3247		ECEV1HVR47Q	E.CAPACITOR 50V 0.47U	1	
C3248		ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3251		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C3253,54		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C3255		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3256-58		ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	3	
C3259		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3260		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C3261		ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3268		ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3269		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3297		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3298		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3299		ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C3401		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3402		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3404-06		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C3443-46		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C3447,48		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	2	
C3449-65		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	17	
C3466		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3467		ECEV1HV2R2Q	E.CAPACITOR 50V 2.2U	1	
C3468-71		ECEV0JV220Q	E.CAPACITOR 6.3V 22U	4	
C3472		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
C3473		ECEV1CV100Q	E.CAPACITOR 16V 10U	1	
C3474		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C3475		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3476		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3478		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3479		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3501		ECEV0JV101Q	E.CAPACITOR 6.3V 100U	1	
C3502		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3503,04		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	2	
C3505		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3506		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3507		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3508		ECEV0JV470Q	E.CAPACITOR 6.3V 47U	1	
D3002,03		MA151K	DIODE	2	<R>
D3201,02		1SS283	DIODE	2	<R>
D3203		MA151K	DIODE	1	<R>
D3206		MA165	DIODE	1	<R>
D3401		MA28W-B	DIODE	1	<R>
D3501		11EQS04	DIODE	1	<R>
FL3001		ELB4R031	FILTER	1	
FL3101		VLF1050	FILTER	1	
FL3102,03		VLF1155	FILTER	2	
FL3201		VLF1045	FILTER	1	
FL3202		VLF1156	FILTER	1	
FL3203		VLF1157	FILTER	1	
FL3204		VLF1156	FILTER	1	
FL3205		VLF1157	FILTER	1	
FL3401		VLF0526	FILTER	1	
FL3402-04		VLF0523	FILTER	3	
FL3405		VLF0526	FILTER	1	
FL3406		VLF1156	FILTER	1	
FL3407		VLF1157	FILTER	1	
IC3001		MC74HC86F	IC	1	<R>
IC3002		TC7S04F	IC	1	<R>
IC3003		NJM78L05UA	IC	1	<R>
IC3004		M52083FP	IC	1	<R>
IC3005		LM324NS	IC	1	<R>
IC3006		AN6308S	IC	1	<R>
IC3007		MC14052BF	IC	1	<R>
IC3010		AN78N05	IC	1	<R>
IC3101		NJM2234MA	IC	1	<R>
IC3102		TL8823F	IC	1	<R>
IC3103		NJM2233BMA	IC	1	<R>
IC3201		NJM592M8	IC	1	<R>
IC3202		MC14577CP	IC	1	<R>
IC3203		NJM2235MA	IC	1	<R>
IC3204		TC4W53F	IC	1	<R>
IC3205		TA75S01F85	IC	1	<R>
IC3206		AN3296S	IC	1	<R>
IC3207		NJM78L05UA	IC	1	<R>
IC3208		TK16031M	IC	1	<R>
IC3401		MC74HC157AF	IC	1	<R>
IC3402,03		MC74HC163AF	IC	2	<R>
IC3404		MC74HC32AF	IC	1	<R>
IC3405		MC74HC74AF	IC	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC3406		TC7WU04F	IC	1	<R>
IC3407		MC74HC08AF	IC	1	<R>
IC3408		MC74HC74AF	IC	1	<R>
IC3409		MC74HC04AF	IC	1	<R>
IC3410		MN4538BS	IC	1	<R>
IC3411		HM63021FP	IC	1	<R>
IC3412		MC74HC541AF	IC	1	<R>
IC3413		MB40778PF	IC	1	<R>
IC3414		MC74HC32AF	IC	1	<R>
IC3416		TC4S30F	IC	1	<R>
IC3417		MC14577CP	IC	1	<R>
IC3418		CXD1175AM	IC	1	<R>
IC3419		MC74HC74AF	IC	1	<R>
IC3420		TC7S08F	IC	1	<R>
IC3421		TC7S04F	IC	1	<R>
L3001		VLQ0163J181	COIL 180UH	1	
L3002		VLQ0163J390	COIL 39UH	1	
L3003		VLQ0163J330	COIL 33UH	1	
L3006		VLQ0163J270	COIL 27UH	1	
L3007,08		VLQ0163J330	COIL 33UH	2	
L3009		VLQ0163J100	COIL 10UH	1	
L3010		VLQ0163J120	COIL 12UH	1	
L3011		VLQ0163J180	COIL 18UH	1	
L3012,13		VLQ0163J100	COIL 10UH	2	
L3014		VLQ0163J101	COIL 100UH	1	
L3015-17		VLQ0319K101	COIL 100UH	3	
L3018		VLQ0133J271	COIL 270UH	1	
L3019		VLQ0163J101	COIL 100UH	1	
L3020		VLQ0133J821	COIL 820UH	1	
L3021		VLQ0163J151	COIL 150UH	1	
L3022		VLQ0163J390	COIL 39UH	1	
L3023		VLQ0163J820	COIL 82UH	1	
L3101		VLQ0133J331	COIL 330UH	1	
L3102		VLQ0133J561	COIL 560UH	1	
L3103		VLQ0133J391	COIL 390UH	1	
L3104		VLQ0133J561	COIL 560UH	1	
L3105		VLQ0133J102	COIL 1000UH	1	
L3107		VLQ0163J151	COIL 150UH	1	
L3108		VLQ0163J220	COIL 22UH	1	
L3109,10		VLQ0163J330	COIL 33UH	2	
L3111,12		VLQ0319K101	COIL 100UH	2	
L3113		VLQ0133J681	COIL 680UH	1	
L3114		VLQ0163J150	COIL 15UH	1	
L3203		VLQEL05K271J	COIL	1	
L3205-08		VLQ0319K101	COIL 100UH	4	
L3211		VLQ0163J560	COIL 56UH	1	
L3225		VLQ0319K101	COIL 100UH	1	
L3317		VLQ0319K101	COIL 100UH	1	
L3401-05		VLQ0319K101	COIL 100UH	5	
P3002		VJP3080	CONNECTOR (MALE)	1	
P3931		VJP3176B100	CONNECTOR (MALE)	1	
Q3001		MSD601-R	TRANSISTOR	1	<R>
Q3002		2SD1328-S	TRANSISTOR	1	<R>
Q3004		MSC2295-B	TRANSISTOR	1	<R>
Q3005		2SK374-R	TRANSISTOR	1	<R>
Q3006,07		MSD601-R	TRANSISTOR	2	<R>
Q3008,09		MSC2295-B	TRANSISTOR	2	<R>
Q3010		MSB709-R	TRANSISTOR	1	<R>
Q3011		MSC2295-B	TRANSISTOR	1	<R>
Q3013,14		MSC2295-B	TRANSISTOR	2	<R>
Q3015		MSB709-R	TRANSISTOR	1	<R>
Q3016		MSC2295-B	TRANSISTOR	1	<R>
Q3101		MSC2295-B	TRANSISTOR	1	<R>
Q3104,05		MSC2295-B	TRANSISTOR	2	<R>
Q3106		MSB709-R	TRANSISTOR	1	<R>
Q3107		MSC2295-B	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q3108		MSB709-R	TRANSISTOR	1	<R>
Q3109		MSC2295-B	TRANSISTOR	1	<R>
Q3111		MSB709-R	TRANSISTOR	1	<R>
Q3112		MSD601-R	TRANSISTOR	1	<R>
Q3113		MSC2295-B	TRANSISTOR	1	<R>
Q3114,15		MSD601-R	TRANSISTOR	2	<R>
Q3116		MSC2295-B	TRANSISTOR	1	<R>
Q3117,18		MSD601-R	TRANSISTOR	2	<R>
Q3119		MSC2295-B	TRANSISTOR	1	<R>
Q3120		MSD601-R	TRANSISTOR	1	<R>
Q3121		XN1213	TRANSISTOR	1	<R>
Q3122		MSB709-R	TRANSISTOR	1	<R>
Q3201-03		MSD601-R	TRANSISTOR	3	<R>
Q3204-08		MSC2295-B	TRANSISTOR	5	<R>
Q3210,11		MSD601-R	TRANSISTOR	2	<R>
Q3213		XN1504	TRANSISTOR	1	<R>
Q3214-17		MSD601-R	TRANSISTOR	4	<R>
Q3219		MSD601-R	TRANSISTOR	1	<R>
Q3221		MSD601-R	TRANSISTOR	1	<R>
Q3222		MSC2295-B	TRANSISTOR	1	<R>
Q3223		MSD601-R	TRANSISTOR	1	<R>
Q3401		MSD601-R	TRANSISTOR	1	<R>
QR3003,04		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR3005		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR3006		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR3009		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR3010		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR3102		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR3201,02		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR3401		XN4501	TRANSISTOR	1	<R>
			RESISTORS		
R3001		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R3002		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3003		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3004		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3009		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3010,11		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3012		ERJ6GEYJ820	M.RESISTOR CH1/10W 82	1	
R3013		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3015		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R3016		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3018		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3019		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R3020		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R3021		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3022		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3023		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3025		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3026		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3027		ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	
R3029		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3030		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3031-33		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R3034		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3036		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3037		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3038		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R3039		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3040		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3041		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R3042		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3044-47		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	4	
R3048-50		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	3	
R3051		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3052		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3053		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R3054		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3055		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3056		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3057		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3058,59		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3060		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3061		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3065		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3067,68		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3069		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3070		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3071		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3072		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3073		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3074		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3075		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3077		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3079		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3080		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R3081		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3082		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3083		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3084		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3085		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3086		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3089		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3090		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3104-14		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	11	
R3115		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3116,17		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3118		ERJ6GEYG151	M.RESISTOR CH1/10W 150	1	
R3119-28		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	10	
R3129		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3130		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3131,32		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R3133,34		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3135		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3136-39		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	4	
R3140		ERJ6GEYJ330	M.RESISTOR CH1/10W 33	1	
R3141,42		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	2	
R3143		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3144		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R3145		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R3146		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3147		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3149,50		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	2	
R3151		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3152		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R3153		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R3154		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3156		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3157,58		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	2	
R3159		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3200		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R3201,02		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3203-05		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	3	
R3206		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3207		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3208		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R3209		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3210		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3211		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3212		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3213		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3214-16		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	3	
R3217		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R3218		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3219		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3220		ERJ6GEYJ820	M.RESISTOR CH1/10W 82	1	
R3221-23		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R3224		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R3225		ERJ6GEYJ113	M.RESISTOR CH1/10W 11K	1	
R3226		ERJ6GEYJ330	M.RESISTOR CH1/10W 33	1	
R3227		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3228		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3229		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3230		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3231		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3232		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3233		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3234		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3235		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3236,37		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	2	
R3238		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3239		ERJ6GEYG151	M.RESISTOR CH1/10W 150	1	
R3240		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R3241		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3242		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3243		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3244		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3245		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3246		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3247-50		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	4	
R3252		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3254		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3255		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R3256		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3257,58		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	2	
R3259		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3260		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3261		ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	
R3262		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3263		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3264		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R3266		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3267		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3268		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3269		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3270		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3271		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3272		ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	
R3273		ERJ6GEYJ684	M.RESISTOR CH1/10W 680K	1	
R3274		ERJ6GEYJ753	M.RESISTOR CH1/10W 75K	1	
R3275		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3276		VRE0034E473	M.RESISTOR CH 1/10W 47K	1	
R3277		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3278		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3279		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3280		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3281,82		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R3283		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3285		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R3286		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3287		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R3288		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3289		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3290		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3291		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R3292		ERJ6GEYJ820	M.RESISTOR CH1/10W 82	1	
R3293		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3294		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3295		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3296		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3297		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3298,99		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	2	
R3300		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
R3317		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3403		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3405-08		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	4	
R3409		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3411,12		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3413-16		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	4	
R3418		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3419		ERJ6GEYJ100	M.RESISTOR CH1/10W 10	1	
R3420,21		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	2	
R3422		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3423		ERJ6GEYJ564	M.RESISTOR CH1/10W 560K	1	
R3424,25		ERJ6GEYG103	M.RESISTOR CH1/10W 10K	2	
R3426		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R3427		ERJ6GEYG302	M.RESISTOR CH1/10W 3K	1	
R3428		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R3430-32		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	3	
R3440-44		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	5	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3447-54		ERJ6GEYG680	M.RESISTOR CH1/10W 68	8	
R3456-60		ERJ6GEYG680	M.RESISTOR CH1/10W 68	5	
R3461		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R3462		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R3463-65		ERJ6GEYG680	M.RESISTOR CH1/10W 68	3	
R3466		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3468		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3469		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3471		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3472		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3473,74		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	2	
R3475		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3476		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R3477		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3478		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3480		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R3501		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3504		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3505		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R3506		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3507		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3508		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3509		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R3510		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R3511		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
SW3401,02		VSR0045	SWITCH	2	<R>
VR3001,02		EVM7JGA00B24	V.RESISTOR 20K	2	
VR3003		EVN32CA00B24	V.RESISTOR 20K	1	
VR3004-08		EVN32CA00B54	V.RESISTOR 50K	5	
VR3101,02		EVM7DGA00B13	V.RESISTOR 1K	2	
VR3201,02		EVM7DGA00B13	V.RESISTOR 1K	2	
VR3401		EVN32CA00B24	V.RESISTOR 20K	1	
X3401		VSX0540	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E111		VSC2051	SHIELD CASE (MIDDLE)	1	
E112		VSC2052	SHIELD CASE (LOWER)	1	
E113		ERDS2T0	CARBON RESISTOR	1	
		VEP04419A	P.C.BOARD W/COMPONENT		AG-7700E ONLY
			MIC JACK		
			CAPACITORS		
C4301		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4302		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4303-05		ECEA1CKA470	E.CAPACITOR 16V 47U	3	
C4306		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4307		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4308		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4310,11		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	2	
FL4301,02		VLF0523	FILTER	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC4301	NJM2068MD	IC	1	<R>
P4301	VJP3076	CONNECTOR (MALE)	1	
Q4301	MSD602-R	TRANSISTOR	1	<R>
		RESISTORS		
R4301,02	ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	2	
R4303	ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R4304	ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R4305	ERJ6GEYJ753	M.RESISTOR CH1/10W 75K	1	
R4306	ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R4307,08	ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	2	
R4309	ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R4310	ERJ6GEYJ753	M.RESISTOR CH1/10W 75K	1	
R4311,12	ERJ6GEYJ330	M.RESISTOR CH1/10W 33	2	
R4314,15	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4316	ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
		MISCELLANEOUS		
E62	VSC3429	SHIELD COVER	1	
E63	VMP3224	MIC JACK ANGLE	1	
	VEP04420C	P.C.BOARD W/COMPONENT		AG-7700E
		AUDIO (1)		
	VEP00W09A	P.C.BOARD W/COMPONENT		ON VEP04420C
		TIMECODE SUB		
		CAPACITORS		
C40001	ECEA1CGE471	E.CAPACITOR 16V 470U	1	
C40002	ECUM1H153KBN	C.CAPACITOR CH 50V 0.015U	1	
C40003	ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40004	ECSF1EE106	T.CAPACITOR 25V 10U	1	
C40006	ECEA1HN010S	E.CAPACITOR 50V 1U	1	
C40007	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C40008,09	ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C40010	ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C40011	ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40012	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C40013	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C40014	ECEA0JGE221	E.CAPACITOR 6.3V 220U	1	
C40015	ECEA1CGE221	E.CAPACITOR 16V 220U	1	
C40016	ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C40017	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C40018	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C40019	ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40020	ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C40021	ECKF2H331KB	C.CAPACITOR 500V 330P	1	
C40022	ECKD2H151KB	C.CAPACITOR 500V 150P	1	
C40023	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40024	ECQP1H223JZ3	P.CAPACITOR 50V 0.022U	1	
C40025	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40026	ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C40027	ECQM2152KZ	P.CAPACITOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C40028	ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40029	ECSF1EE336	T.CAPACITOR 25V 33U	1	
C40030	ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C40031,32	ECSF1CE106	T.CAPACITOR 16V 10U	2	
C40033	ECSF1EE106	T.CAPACITOR 25V 10U	1	
C40034	ECSF1HE105	T.CAPACITOR 50V 1U	1	
C40035	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40036	ECSF1CE336	T.CAPACITOR 16V 33U	1	
C40037	ECQB1H823JF	P.CAPACITOR 50V 0.082U	1	
C40038	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C40039	ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	1	
C40040	ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C40041,42	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	2	
C40043	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C40044	ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C40045	ECQB1H273JF	P.CAPACITOR 50V 0.027U	1	
C40046	ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40047	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40048	ECQB1H562JF	P.CAPACITOR 50V 5600P	1	
C40049	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C40050	ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C40051	ECQM2152KZ	P.CAPACITOR	1	
C40052	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C40053	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C40054	ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C40055	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40056	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C40057	ECEA1HN2R2S	E.CAPACITOR 50V 2.2U	1	
C40058	ECEA1HN010S	E.CAPACITOR 50V 1U	1	
C40059	ECUM1C104KBN	C.CAPACITOR CH 16V 0.1U	1	
C40060,61	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C40062	ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C40063	ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40064	ECEA1EN4R7S	E.CAPACITOR 25V 4.7U	1	
C40065	ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C40066	ECUM1C104KBN	C.CAPACITOR CH 16V 0.1U	1	
C40067	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C40068	ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C40069	ECQB1H153JF	P.CAPACITOR 50V 0.015U	1	
C40070	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C40071	ECEA1HGE2R2	E.CAPACITOR 50V 2.2U	1	
C40072	ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C40073	ECEA1CGE471	E.CAPACITOR 16V 470U	1	
C40074	ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40075	ECUM1H153KBN	C.CAPACITOR CH 50V 0.015U	1	
C40076	ECEA1HGE2R2	E.CAPACITOR 50V 2.2U	1	
C40077	ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C40078	ECSF1EE336	T.CAPACITOR 25V 33U	1	
C40079,80	ECSF1CE106	T.CAPACITOR 16V 10U	2	
C40081	ECSF1EE106	T.CAPACITOR 25V 10U	1	
C40082	ECSF1HE105	T.CAPACITOR 50V 1U	1	
C40083	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40084	ECSF1CE336	T.CAPACITOR 16V 33U	1	
C40085	ECQB1H823JF	P.CAPACITOR 50V 0.082U	1	
C40086	ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	1	
C40087	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C40088	ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C40089	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C40090	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C40091	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C40092	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C40093	ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40094	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C40095	ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40096	ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C40097	ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40098	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C40099	ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C40101	ECSF1EE106	T.CAPACITOR 25V 10U	1	
C40102	ECEA1HGE010	E.CAPACITOR 50V 1U	1	
C40103	ECEA0JGE221	E.CAPACITOR 6.3V 220U	1	
C40104	ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C40105	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C40106	ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40107	ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C40108		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40109		ECEA1CGE221	E.CAPACITOR 16V 220U	1	
C40110		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40111		ECQB1H273JF	P.CAPACITOR 50V 0.027U	1	
C40112		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40113		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C40114		ECQB1H562JF	P.CAPACITOR 50V 5600P	1	
C40115		ECEA1HGE010	E.CAPACITOR 50V 1U	1	
C40116		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C40117		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C40118		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C40119		ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C40120		ECUM1C104KBN	C.CAPACITOR CH 16V 0.1U	1	
C40121		ECKF2H331KB	C.CAPACITOR 500V 330P	1	
C40122		ECKD2H151KB	C.CAPACITOR 500V 150P	1	
C40123		ECQM2152KZ	P.CAPACITOR	1	
C40124		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C40125		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40126		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C40127		ECEA1HN2R2S	E.CAPACITOR 50V 2.2U	1	
C40128		ECEA1HN010S	E.CAPACITOR 50V 1U	1	
C40129		ECUM1C104KBN	C.CAPACITOR CH 16V 0.1U	1	
C40130		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C40131		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C40132		ECQB1H153JF	P.CAPACITOR 50V 0.015U	1	
C40133,34		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C40135		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C40136		ECEA1EN4R7S	E.CAPACITOR 25V 4.7U	1	
C40137		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C40138		ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C40139		ECEA1CGE471	E.CAPACITOR 16V 470U	1	
C40140,41		ECEA1CGE101	E.CAPACITOR 16V 100U	2	
C40142		ECEA1HGE220	E.CAPACITOR 50V 22U	1	
C40143		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40144		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C40145		ECEA1VGE330	E.CAPACITOR 35V 33U	1	
C40146		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C40147		ECEA1VGE330	E.CAPACITOR 35V 33U	1	
C40148		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C40149		ECEA1HGE010	E.CAPACITOR 50V 1U	1	
C40150		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40151		ECEA1VGE330	E.CAPACITOR 35V 33U	1	
C40152		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40153		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40154		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40155		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40156-58		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C40159,60		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C40161		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C40162		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C40163		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40164		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C40165,66		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C40167		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40168		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C40169		ECEA1VGE330	E.CAPACITOR 35V 33U	1	
C40170		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C40171		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C40172		ECEA1VGE330	E.CAPACITOR 35V 33U	1	
C40173		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C40175		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40176		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C40180,81		ECEA1HGE100	E.CAPACITOR 50V 10U	2	
C40182		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C40183		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
D1,D2		MA151K	DIODE	2	<R>
D40001-11		MA151K	DIODE	11	<R>
D40012,13		MA151WA	DIODE	2	<R>
D40014,15		MA151K	DIODE	2	<R>
D40016		MA151WK	DIODE	1	<R>
D40017		MA151K	DIODE	1	<R>
D40018		MA723	DIODE	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D40019		MA165	DIODE	1	<R>
FL40001,02		VLF0402	FILTER	2	
IC40001		HA12005	IC	1	<R>
IC40002		NE646N	IC	1	<R>
IC40003		HA12005	IC	1	<R>
IC40004		NE646N	IC	1	<R>
IC40005		UPC4558G2	IC	1	<R>
IC40006,07		MN1280R	IC	2	<R>
IC40008		AN360	IC	1	<R>
IC40009		MC14053BF	IC	1	<R>
IC40010-12		MC74HC595AF	IC	3	<R>
IC40013-15		TD62503F	IC	3	<R>
IC40016		MC14066BF	IC	1	<R>
IC40017		MC14053BF	IC	1	<R>
IC40018,19		AN6558S	IC	2	<R>
IC40020		M51132L	IC	1	<R>
IC40021		TC7S32F	IC	1	<R>
J40001		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J40003-05		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
L40001		VLQEL06F102K	COIL 1000UH	1	
L40002		VLQ0123	COIL	1	
L40003		VLQEL06F102K	COIL 1000UH	1	
L40004,05		VLQEL06F471K	COIL 470UH	2	
L40006		VLQEL06F102K	COIL 1000UH	1	
L40007		VLQ0123	COIL	1	
L40008,09		VLQEL06F102K	COIL 1000UH	2	
L40010		VLQ0460	COIL	1	
P40001		VJP1231T	CONNECTOR (MALE)	1	
P40002		VJP1230R	CONNECTOR (MALE)	1	
P40003		VJP1230T	CONNECTOR (MALE)	1	
P40004		VJP3176B064	CONNECTOR (MALE)	1	
Q1		2SB710	TRANSISTOR	1	<R>
Q40001		2SD1306	TRANSISTOR	1	<R>
Q40002,03		2SD1149-R	TRANSISTOR	2	<R>
Q40004		2SB709A	TRANSISTOR	1	<R>
Q40005,06		MSD601-R	TRANSISTOR	2	<R>
Q40007		MSB709-R	TRANSISTOR	1	<R>
Q40008		2SD636	TRANSISTOR	1	<R>
Q40009		2SD1862	TRANSISTOR	1	<R>
Q40010		2SB643	TRANSISTOR	1	<R>
Q40011		2SD1149-R	TRANSISTOR	1	<R>
Q40012		MSB709-R	TRANSISTOR	1	<R>
Q40013		2SD1149-R	TRANSISTOR	1	<R>
Q40014,15		2SD602A	TRANSISTOR	2	<R>
Q40016,17		2SB710A-R	TRANSISTOR	2	<R>
Q40018		2SD1862	TRANSISTOR	1	<R>
Q40019		MSB709-R	TRANSISTOR	1	<R>
Q40020,21		2SD602A	TRANSISTOR	2	<R>
Q40022,23		2SC2405-S	TRANSISTOR	2	<R>
Q40024,25		2SD1306	TRANSISTOR	2	<R>
Q40026		2SD1149-R	TRANSISTOR	1	<R>
Q40027		2SB709A	TRANSISTOR	1	<R>
Q40028		2SD1149-R	TRANSISTOR	1	<R>
Q40029,30		MSD601-R	TRANSISTOR	2	<R>
Q40031		MSB709-R	TRANSISTOR	1	<R>
Q40032		2SD636	TRANSISTOR	1	<R>
Q40033		2SD1149-R	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q40034		MSB709-R	TRANSISTOR	1	<R>
Q40035		2SB643	TRANSISTOR	1	<R>
Q40036		2SD1862	TRANSISTOR	1	<R>
Q40037		MSB709-R	TRANSISTOR	1	<R>
Q40038,39		2SD602A	TRANSISTOR	2	<R>
Q40040		2SB710A-R	TRANSISTOR	1	<R>
Q40041,42		2SC2405-S	TRANSISTOR	2	<R>
Q40043		2SD1306	TRANSISTOR	1	<R>
Q40044		2SD1149-R	TRANSISTOR	1	<R>
Q40045		MSB709-R	TRANSISTOR	1	<R>
Q40046		2SB710A-R	TRANSISTOR	1	<R>
Q40047		2SD602-R	TRANSISTOR	1	<R>
Q40048		MSD601-R	TRANSISTOR	1	<R>
Q40049		2SD1862	TRANSISTOR	1	<R>
QR1-R4		UN2211	TRANSISTOR-RESISTOR	4	<R>
QR40001-03		MRN1403	TRANSISTOR-RESISTOR	3	<R>
QR40004		UN2114	TRANSISTOR-RESISTOR	1	<R>
QR40005		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR40006		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR40007		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR40008-10		MRN2403	TRANSISTOR-RESISTOR	3	<R>
QR40011		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR40012		MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR40013		UN2217	TRANSISTOR-RESISTOR	1	<R>
QR40014		UN2215	TRANSISTOR-RESISTOR	1	<R>
QR40015-17		MRN1403	TRANSISTOR-RESISTOR	3	<R>
QR40018		UN2114	TRANSISTOR-RESISTOR	1	<R>
QR40019		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR40020-22		MRN2403	TRANSISTOR-RESISTOR	3	<R>
QR40023		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR40024		MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR40025		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR40026		UN2215	TRANSISTOR-RESISTOR	1	<R>
QR40027		UN2217	TRANSISTOR-RESISTOR	1	<R>
QR40028		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR40029-32		MRN2404	TRANSISTOR-RESISTOR	4	<R>
			RESISTORS		
R1		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R3		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R4		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40001-03		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	3	
R40004		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R40005		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40006		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40007		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40008		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R40009		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R40010		ERJ6GEYJ154	M.RESISTOR CH1/10W 150K	1	
R40011,12		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	2	
R40013		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R40014		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R40015		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40016		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R40017		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40018		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40019		ERJ6GEYJ824	M.RESISTOR CH1/10W 820K	1	
R40020,21		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	2	
R40022		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R40023		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R40024		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R40025		ERJ6GEYJ184	M.RESISTOR CH1/10W 180K	1	
R40026,27		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R40028		ERJ6GEYJ274	M.RESISTOR CH1/10W 270K	1	
R40029		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40030		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R40031		VRE0034E564	M.RESISTOR CH 1/10W 560K	1	
R40032		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R40033		VRE0034E104	M.RESISTOR CH 1/10W 100K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R40034		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R40035		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40036		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R40037		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40038		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R40039		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R40040		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R40041		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R40042		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40043,44		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R40045		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40046		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40047		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R40048		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R40049		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R40050,51		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R40052		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R40053		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40054		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R40055		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R40056		ERJ6GEYG181	M.RESISTOR CH1/10W 180	1	
R40057		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40058		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40059		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R40060		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40061		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R40062		ERJ6GEYJ564	M.RESISTOR CH1/10W 560K	1	
R40063		ERDS2TJ330	C.RESISTOR 1/4W 33	1	
R40064		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R40065		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40066		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R40067		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40068		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R40069		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40070		ERJ6GEYJ823	M.RESISTOR CH1/10W 82K	1	
R40071		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R40072		ERJ6GEYJ820	M.RESISTOR CH1/10W 82	1	
R40073		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R40074		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R40075		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R40076		ERDS1VJ100	C.RESISTOR 1/2W 10	1	
R40077		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R40078		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40079-81		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	3	
R40082		ERJ6GEYJ155	M.RESISTOR CH1/10W 1.5M	1	
R40083		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R40084		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R40085		ERJ6GEYJ155	M.RESISTOR CH1/10W 1.5M	1	
R40086,87		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R40088		ERDS2TJ220	C.RESISTOR 1/4W 22	1	
R40089		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R40090		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R40091,92		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	2	
R40093,94		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	2	
R40095		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40096		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40097		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R40098		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40099		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R40100		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R40101		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40102		ERJ6GEYJ154	M.RESISTOR CH1/10W 150K	1	
R40103		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R40104		VRE0034E564	M.RESISTOR CH 1/10W 560K	1	
R40105		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R40106		VRE0034E104	M.RESISTOR CH 1/10W 100K	1	
R40107		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R40108		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40109		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R40110		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40111		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R40112		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R40113		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R40114		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R40115		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R40116		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40117		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R40118		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R40119		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40120		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R40121		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40122		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40123		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40124		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40125		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R40127		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40128		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R40129		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R40130		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R40131		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R40132		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R40133		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R40134		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40135		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R40136		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40137		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40138		ERJ6GEYJ824	M.RESISTOR CH1/10W 820K	1	
R40139		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40140		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R40141		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40142		ERJ6GEYJ184	M.RESISTOR CH1/10W 180K	1	
R40143		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40144		ERJ6GEYJ274	M.RESISTOR CH1/10W 270K	1	
R40145		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40146		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R40147		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R40148		ERJ6GEYG181	M.RESISTOR CH1/10W 180	1	
R40149		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40150		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R40151		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40152		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40153		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R40154		ERJ6GEYJ564	M.RESISTOR CH1/10W 560K	1	
R40155		ERJ6GEYJ820	M.RESISTOR CH1/10W 82	1	
R40157		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R40158		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40159		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R40160		ERJ6GEYJ823	M.RESISTOR CH1/10W 82K	1	
R40161-63		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R40164		ERJ6GEYJ155	M.RESISTOR CH1/10W 1.5M	1	
R40165		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R40166		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R40167		ERJ6GEYJ155	M.RESISTOR CH1/10W 1.5M	1	
R40168		ERDS2TJ330	C.RESISTOR 1/4W 33	1	
R40169		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R40170		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40171		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40172		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R40173		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R40174		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R40175		ERDS1TJ100	C.RESISTOR 1/2W 10	1	
R40176		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R40177		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40178-80		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	3	
R40181		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R40182		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40183		ERJ6GEYJ154	M.RESISTOR CH1/10W 150K	1	
R40184		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R40185		ERJ6GEYG151	M.RESISTOR CH1/10W 150	1	
R40186		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R40187,88		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R40189		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40190		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40191		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40192-99		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	8	
R40200		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40201		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R40202		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R40203		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40204		ERJ6GEYJ560	M.RESISTOR CH1/10W 56	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R40205		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40206		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R40207,08		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R40209,10		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R40211		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40212-15		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	4	
R40216,17		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R40218		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40219,20		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R40221		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40222		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40223		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40224-28		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	5	
R40229		ERJ6GEYG151	M.RESISTOR CH1/10W 150	1	
R40230		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40231,32		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R40233		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40234		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40235,36		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R40237		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40240,41		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R40242-46		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	5	
RY1		VSY2069	RELAY	1	
RY40001		VSY2074	RELAY	1	
TL40001		VLT0146	TRANSFORMER	1	
TL40002		VLT0143	TRANSFORMER	1	
TL40003,04		VLT0145	TRANSFORMER	2	
TL40005		VLT0146	TRANSFORMER	1	
VR40002,03		EVN32CA00B23	V.RESISTOR 2K	2	
VR40004		EVN32CA00B15	V.RESISTOR 100K	1	
VR40005		EVN32CA00B53	V.RESISTOR 5K	1	
VR40007,08		EVN32CA00B23	V.RESISTOR 2K	2	
VR40009		EVN32CA00B15	V.RESISTOR 100K	1	
VR40010		EVN32CA00B53	V.RESISTOR 5K	1	
VR40011,12		EVN32CA00B23	V.RESISTOR 2K	2	
			MISCELLANEOUS		
E67		VSC3967	SHIELD CASE	1	
E68		VSC3968	SHIELD CASE (MIDDLE)	1	
E69		VSC3969	SHIELD CASE (LOWER)	1	
E71		VSC3971	SHIELD CASE (MIDDLE)	1	
E72		VSC3972	SHIELD CASE (LOWER,BIAS)	1	
		VEP04420D	P.C.BOARD W/COMPONENT		AG-7600E
			AUDIO (1)		
			CAPACITORS		
C40001		ECEA1CGE471	E.CAPACITOR 16V 470U	1	
C40003		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40005		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
C40009		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C40010		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C40011		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40014		ECEA0JGE221	E.CAPACITOR 6.3V 220U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C40015		ECEA1CGE221	E.CAPACITOR 16V 220U	1	
C40016		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C40017		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C40018		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C40019		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40020		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C40029		ECSF1EE336	T.CAPACITOR 25V 33U	1	
C40030		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C40031,32		ECSF1CE106	T.CAPACITOR 16V 10U	2	
C40033		ECSF1EE106	T.CAPACITOR 25V 10U	1	
C40034		ECSF1HE105	T.CAPACITOR 50V 1U	1	
C40035		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40036		ECSF1CE336	T.CAPACITOR 16V 33U	1	
C40037		ECQB1H823JF	P.CAPACITOR 50V 0.082U	1	
C40038		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C40039		ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	1	
C40040		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C40041,42		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	2	
C40043		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C40044		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C40045		ECQB1H273JF	P.CAPACITOR 50V 0.027U	1	
C40046		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40047		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40048		ECQB1H562JF	P.CAPACITOR 50V 5600P	1	
C40049		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C40050		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C40052		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C40073		ECEA1CGE471	E.CAPACITOR 16V 470U	1	
C40074		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40077		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C40078		ECSF1EE336	T.CAPACITOR 25V 33U	1	
C40079,80		ECSF1CE106	T.CAPACITOR 16V 10U	2	
C40081		ECSF1EE106	T.CAPACITOR 25V 10U	1	
C40082		ECSF1HE105	T.CAPACITOR 50V 1U	1	
C40083		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40084		ECSF1CE336	T.CAPACITOR 16V 33U	1	
C40085		ECQB1H823JF	P.CAPACITOR 50V 0.082U	1	
C40086		ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	1	
C40087		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C40088		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C40091		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C40092		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C40093		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40094		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C40095		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40096		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C40100		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
C40103		ECEA0JGE221	E.CAPACITOR 6.3V 220U	1	
C40104		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C40105		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C40106		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40107		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C40108		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40109		ECEA1CGE221	E.CAPACITOR 16V 220U	1	
C40110		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40111		ECQB1H273JF	P.CAPACITOR 50V 0.027U	1	
C40112		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40113		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C40114		ECQB1H562JF	P.CAPACITOR 50V 5600P	1	
C40115		ECEA1HGE010	E.CAPACITOR 50V 1U	1	
C40116		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C40117		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C40139		ECEA1CGE471	E.CAPACITOR 16V 470U	1	
C40140,41		ECEA1CGE101	E.CAPACITOR 16V 100U	2	
C40142		ECEA1HGE220	E.CAPACITOR 50V 22U	1	
C40143		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40144		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C40145		ECEA1VGE330	E.CAPACITOR 35V 33U	1	
C40146		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C40147		ECEA1VGE330	E.CAPACITOR 35V 33U	1	
C40148		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C40149		ECEA1HGE010	E.CAPACITOR 50V 1U	1	
C40150		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40151		ECEA1VGE330	E.CAPACITOR 35V 33U	1	
C40152		ECEA1CGE101	E.CAPACITOR 16V 100U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C40153		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C40154		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C40155		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C40156-58		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
D40002		MA151K	DIODE	1	<R>
D40004		MA151K	DIODE	1	<R>
D40007		MA151K	DIODE	1	<R>
D40010		MA151K	DIODE	1	<R>
D40014,15		MA151K	DIODE	2	<R>
D40016		MA151WK	DIODE	1	<R>
D40017		MA151K	DIODE	1	<R>
D40018		MA723	DIODE	1	<R>
D40019		MA165	DIODE	1	<R>
FL40001,02		VLF0402	FILTER	2	
IC40001		HA12005	IC	1	<R>
IC40002		NE646N	IC	1	<R>
IC40003		HA12005	IC	1	<R>
IC40004		NE646N	IC	1	<R>
IC40006,07		MN1280R	IC	2	<R>
IC40008		AN360	IC	1	<R>
IC40009		MC14053BF	IC	1	<R>
IC40010-12		MC74HC595AF	IC	3	<R>
IC40013-15		TD62503F	IC	3	<R>
IC40021		TC7S32F	IC	1	<R>
J40005		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J40008,09		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
L40008,09		VLQEL06F102K	COIL 1000UH	2	
P40002		VJP1230R	CONNECTOR (MALE)	1	
P40003		VJP1230T	CONNECTOR (MALE)	1	
P40004		VJP3176B064	CONNECTOR (MALE)	1	
Q40008		2SD636	TRANSISTOR	1	<R>
Q40022,23		2SC2405-S	TRANSISTOR	2	<R>
Q40024		2SD1306	TRANSISTOR	1	<R>
Q40032		2SD636	TRANSISTOR	1	<R>
Q40041,42		2SC2405-S	TRANSISTOR	2	<R>
Q40043		2SD1306	TRANSISTOR	1	<R>
Q40045		MSB709-R	TRANSISTOR	1	<R>
Q40046		2SB710A-R	TRANSISTOR	1	<R>
QR40008-10		MRN2403	TRANSISTOR-RESISTOR	3	<R>
QR40011		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR40012		MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR40020-22		MRN2403	TRANSISTOR-RESISTOR	3	<R>
QR40023		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR40024		MRN1402	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R40010		ERJ6GEYJ154	M.RESISTOR CH1/10W 150K	1	
R40011,12		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	2	
R40022		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R40024		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R40025		ERJ6GEYJ184	M.RESISTOR CH1/10W 180K	1	
R40026,27		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R40028		ERJ6GEYJ274	M.RESISTOR CH1/10W 270K	1	
R40029		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40031		VRE0034E564	M.RESISTOR CH 1/10W 560K	1	
R40032		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R40033		VRE0034E104	M.RESISTOR CH 1/10W 100K	1	
R40034		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R40035		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40036		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R40037		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40038		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R40039		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R40040		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R40041		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R40042		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40043		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40045		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40046		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40048		ERJ6GEYJ223	.M.RESISTOR CH1/10W 22K	1	
R40049		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R40050,51		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R40052		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R40053		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40054		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R40055		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R40056		ERJ6GEYG181	M.RESISTOR CH1/10W 180	1	
R40057		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40058		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40059		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R40102		ERJ6GEYJ154	M.RESISTOR CH1/10W 150K	1	
R40104		VRE0034E564	M.RESISTOR CH 1/10W 560K	1	
R40105		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R40106		VRE0034E104	M.RESISTOR CH 1/10W 100K	1	
R40107		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R40108		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40109		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R40110		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40111		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R40112		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R40113		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R40114		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R40115		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40116		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40117		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R40120		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R40121		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40122		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40123		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40124		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40125		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R40129		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R40130		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R40132		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R40140		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R40141		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40142		ERJ6GEYJ184	M.RESISTOR CH1/10W 180K	1	
R40143		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40144		ERJ6GEYJ274	M.RESISTOR CH1/10W 270K	1	
R40145		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40146		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R40147		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R40148		ERJ6GEYG181	M.RESISTOR CH1/10W 180	1	
R40149		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40150		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R40151		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40181		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R40182		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40183		ERJ6GEYJ154	M.RESISTOR CH1/10W 150K	1	
R40184		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R40185		ERJ6GEYG151	M.RESISTOR CH1/10W 150	1	
R40186		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R40187,88		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R40189		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R40190		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R40191		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40192-99		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	8	
R40200		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40201		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R40202		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R40203		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R40204		ERJ6GEYJ560	M.RESISTOR CH1/10W 56	1	
R40205		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R40206		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R40207		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R40242-46		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	5	
RY40001		VSY2074	RELAY	1	
VR40002,03		EVN32CA00B23	V.RESISTOR 2K	2	
VR40007,08		EVN32CA00B23	V.RESISTOR 2K	2	
			MISCELLANEOUS		
E67		VSC3967	SHIELD CASE	1	
E68		VSC3968	SHIELD CASE (MIDDLE)	1	
E69		VSC3969	SHIELD CASE (LOWER)	1	
		VEP04421C	P.C.BOARD W/COMPONENT		AG-7700E
			AUDIO (2)		
			CAPACITORS		
C41001		ECEA1CGE471	E.CAPACITOR 16V 470U	1	
C41002		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C41003,04		ECEA1HGE3R3	E.CAPACITOR 50V 3.3U	2	
C41005		ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C41006		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C41007		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C41008		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C41009		ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	1	
C41010		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C41011		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41012		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C41013		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C41014-16		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C41017		ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	1	
C41018		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C41019		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C41020		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C41021,22		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C41023		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C41024		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41025		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C41026		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C41027		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C41028		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C41029		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C41030		ECEA1VGE330	E.CAPACITOR 35V 33U	1	
C41031		ECQV1H274JZ	P.CAPACITOR 50V 0.27U	1	
C41032,33		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C41034		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C41035-37		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C41038		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C41039		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C41040		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C41041		ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	1	
C41042-44		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C41045		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C41046		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C41047		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41048,49		ECQB1H223JF	P.CAPACITOR 50V 0.022U	2	
C41050		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C41051		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C41052		ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C41053,54		ECEA1EN4R7S	E.CAPACITOR 25V 4.7U	2	
C41055,56		ECEA1HGE100	E.CAPACITOR 50V 10U	2	
C41057		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41058		ECEA1HGE220	E.CAPACITOR 50V 22U	1	
C41059		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41060		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C41061		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C41062		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C41063,64		ECEA1HGE010	E.CAPACITOR 50V 1U	2	
C41065,66		ECEA1CGE470	E.CAPACITOR 16V 47U	2	
C41067,68		ECEA1CN100S	E.CAPACITOR 16V 10U	2	
C41069,70		ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	2	
C41071		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C41072-74		ECEA1CGE470	E.CAPACITOR 16V 47U	3	
C41075		ECEA1AGE221	E.CAPACITOR 10V 220U	1	
C41076		ECEA1VGE330	E.CAPACITOR 35V 33U	1	
C41077		ECEA0JGE101	E.CAPACITOR 6.3V 100U	1	
C41078		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C41079		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C41080		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41081		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C41082		ECEA1CGE221	E.CAPACITOR 16V 220U	1	
C41083		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C41084		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41085		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C41086,87		ECEA1HGE100	E.CAPACITOR 50V 10U	2	
C41088		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41089		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C41090		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41091		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C41092		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41093		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C41094-96		ECEA1CGE470	E.CAPACITOR 16V 47U	3	
C41097,98		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C41099		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C41100		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C41101		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C41102,03		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	2	
C41104		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C41106-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C41109		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41110,11		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C41112,13		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	2	
C41114		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C41116		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C41117		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41118		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C41119		ECEA1CGE471	E.CAPACITOR 16V 470U	1	
C41120		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41121		ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	1	
C41122		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41123		ECEA1HGE220	E.CAPACITOR 50V 22U	1	
C41124		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C41130		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
D41001-04		0A90	DIODE	4	<R>
D41005,06		MA3043	DIODE	2	<R>
D41007,08		MA4068M	DIODE	2	<R>
D41009		MA151K	DIODE	1	<R>
D41010,11		MA157	DIODE	2	<R>
D41012,13		MA3030	DIODE	2	<R>
D41014		MA3068	DIODE	1	<R>
D41015,16		MA151K	DIODE	2	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D41017		MA153	DIODE	1	<R>
FL41001		VLF0697	FILTER	1	
IC41001		BA7705K1	IC	1	<R>
IC41002		AN78N05	IC	1	<R>
IC41003		AN3912	IC	1	<R>
IC41004		UPC4558G2	IC	1	<R>
IC41005		UPC393G2	IC	1	<R>
IC41006		MC14053BF	IC	1	<R>
IC41007		UPC4558G2	IC	1	<R>
IC41008		NJM2068MD	IC	1	<R>
IC41009		UPC4558G2	IC	1	<R>
IC41010-12		MC14053BF	IC	3	<R>
IC41013		UPC4558G2	IC	1	<R>
IC41014		MC14053BF	IC	1	<R>
IC41015		UPC4556G2	IC	1	<R>
IC41016,17		AN6558S	IC	2	<R>
L41001-03		VLQEL05S101J	COIL 100UH	3	
L41004-08		VLQEL06F102K	COIL 1000UH	5	
L41009,10		VLQEL05S101J	COIL 100UH	2	
L41011		VLQ0599J120	COIL 12UH	1	
L41012		VLQEL05S101J	COIL 100UH	1	
P41001		VJP3078	CONNECTOR (MALE)	1	
P41002		VJP3529	CONNECTOR (MALE)	1	
P41003		VJP3176B064	CONNECTOR (MALE)	1	
Q41001		2SB709A-R	TRANSISTOR	1	<R>
Q41002,03		2SD1306	TRANSISTOR	2	<R>
Q41004		2SD636-R	TRANSISTOR	1	<R>
Q41005		XN1501	TRANSISTOR	1	<R>
Q41006,07		MSD601-R	TRANSISTOR	2	<R>
Q41008		2SD1306	TRANSISTOR	1	<R>
Q41009		2SD638	TRANSISTOR	1	<R>
Q41010		2SB643	TRANSISTOR	1	<R>
Q41011		2SD1306	TRANSISTOR	1	<R>
Q41012-14		MSD601-R	TRANSISTOR	3	<R>
Q41015		2SD1328-R	TRANSISTOR	1	<R>
Q41016		2SD602A	TRANSISTOR	1	<R>
Q41017,18		2SD1306	TRANSISTOR	2	<R>
Q41019		2SC2404	TRANSISTOR	1	<R>
Q41020		MSC2295-B	TRANSISTOR	1	<R>
Q41021		MSD601-R	TRANSISTOR	1	<R>
Q41022-24		2SD602A-R	TRANSISTOR	3	<R>
Q41025		2SB644	TRANSISTOR	1	<R>
Q41026		2SD639	TRANSISTOR	1	<R>
Q41027		2SC2404	TRANSISTOR	1	<R>
Q41028		MSD601-R	TRANSISTOR	1	<R>
Q41029,30		2SD602A-R	TRANSISTOR	2	<R>
Q41031		2SB644	TRANSISTOR	1	<R>
Q41032		2SD639	TRANSISTOR	1	<R>
Q41033		2SC2404	TRANSISTOR	1	<R>
Q41034		2SD602A-R	TRANSISTOR	1	<R>
Q41035		2SB793	TRANSISTOR	1	<R>
Q41036		2SB710	TRANSISTOR	1	<R>
Q41037		2SD1306	TRANSISTOR	1	<R>
Q41038,39		2SD1328-R	TRANSISTOR	2	<R>
Q41040		2SD1306	TRANSISTOR	1	<R>
Q41041,42		2SD1328-R	TRANSISTOR	2	<R>
Q41043		2SD1306	TRANSISTOR	1	<R>
Q41044,45		2SD1328-R	TRANSISTOR	2	<R>
Q41046		2SD1306	TRANSISTOR	1	<R>
Q41047,48		2SD1328-R	TRANSISTOR	2	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q41049		2SD601	TRANSISTOR	1	<R>
Q41050		2SD973	TRANSISTOR	1	<R>
Q41051,52		2SD1306	TRANSISTOR	2	<R>
Q41053		2SB709A-R	TRANSISTOR	1	<R>
QR41002,03		MRN2403	TRANSISTOR-RESISTOR	2	<R>
QR41004,05		MRN1403	TRANSISTOR-RESISTOR	2	<R>
QR41006,07		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR41008		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR41009		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR41010,11		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR41012		MRN1402	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R41001,02		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	2	
R41003,04		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R41005,06		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R41007		ERJ6GEYJ225	M.RESISTOR CH1/10W 2.2M	1	
R41008,09		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	2	
R41010,11		ERJ6GEYG821	M.RESISTOR CH1/10W 820	2	
R41012		ERJ6GEYG681	M.RESISTOR CH1/10W 680	1	
R41013		VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R41014		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R41015		ERJ6GEYG183	M.RESISTOR CH1/10W 18K	1	
R41016		ERJ6GEYG562	M.RESISTOR CH1/10W 5.6K	1	
R41017		ERJ6GEYG104	M.RESISTOR CH1/10W 100K	1	
R41018		ERJ6GEYG303	M.RESISTOR CH1/10W 30K	1	
R41019		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R41020		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41021		VRE0034E393	M.RESISTOR CH 1/10W 39K	1	
R41022		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41023,24		VRE0034E223	M.RESISTOR CH 1/10W 22K	2	
R41025		ERJ6GEYG163	M.RESISTOR CH1/10W 16K	1	
R41026		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R41027		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41028,29		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R41030		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41031		ERJ6GEYJ823	M.RESISTOR CH1/10W 82K	1	
R41032		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41033,34		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	2	
R41035		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41036,37		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	2	
R41038		ERJ6GEYG181	M.RESISTOR CH1/10W 180	1	
R41039		ERJ6GEYG103	M.RESISTOR CH1/10W 10K	1	
R41040		ERJ6GEYG303	M.RESISTOR CH1/10W 30K	1	
R41041		ERJ6GEYG104	M.RESISTOR CH1/10W 100K	1	
R41042		ERJ6GEYG562	M.RESISTOR CH1/10W 5.6K	1	
R41043		ERJ6GEYG183	M.RESISTOR CH1/10W 18K	1	
R41044		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R41045		VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R41046		ERJ6GEYG681	M.RESISTOR CH1/10W 680	1	
R41047,48		ERJ6GEYG821	M.RESISTOR CH1/10W 820	2	
R41049		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R41050		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41051		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R41052		ERJ6GEYJ330	M.RESISTOR CH1/10W 33	1	
R41053		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41054,55		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	2	
R41057		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R41058		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R41059		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R41062		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R41063		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R41064		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R41065		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R41066-71		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	6	
R41072,73		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	2	
R41074		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41075,76		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	2	
R41077		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41078		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R41079		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R41080		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41081		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R41082		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41083,84		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R41085		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R41086		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R41087		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41088		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41089		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R41090		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41091,92		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R41094,95		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R41096		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41097		ERJ6GEYG680	M.RESISTOR CH1/10W 68	1	
R41098		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R41099		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41100		VRE0034E302	M.RESISTOR CH 1/10W 3K	1	
R41101		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R41102		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41103		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R41104		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41105,06		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R41107,08		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R41109-11		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R41112		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R41113		ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R41115		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41116		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R41117		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R41118		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41119		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41120		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R41121		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41122		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R41123		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R41124		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R41125		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R41126		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R41127,28		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	2	
R41129		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R41130		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41131		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41132,33		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	2	
R41134		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R41135		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41136		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41137		ERJ6GEYK1R0	M.RESISTOR CH1/10W 1.0	1	
R41138		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R41139		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R41140		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41141		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R41142		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R41143		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R41144		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R41145		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41146		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R41147		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R41148		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R41149		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41150		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R41151		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R41152		ERJ6GEYJ3R3	M.RESISTOR CH1/10W 3.3	1	
R41153		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R41154		ERJ6GEYJ3R3	M.RESISTOR CH1/10W 3.3	1	
R41155		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R41156		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R41157		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R41158		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R41159,60		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	2	
R41161		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R41162,63		ERJ6GEYJ270	M.RESISTOR CH1/10W 27	2	
R41164		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R41165		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R41167		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R41168		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R41169		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R41170		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R41171		ERJ6GEYJ3R3	M.RESISTOR CH1/10W 3.3	1	
R41172		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R41173		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R41174,75		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	2	
R41176		ERJ6GEYJ3R3	M.RESISTOR CH1/10W 3.3	1	
R41177		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R41178		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R41179,80		ERJ6GEYJ270	M.RESISTOR CH1/10W 27	2	
R41181		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R41182		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R41183		ERJ6GEYG151	M.RESISTOR CH1/10W 150	1	
R41184		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41185		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41186		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R41187		ERJ6GEYG151	M.RESISTOR CH1/10W 150	1	
R41188		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R41189		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R41190		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41191		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R41192-94		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R41195		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41196		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R41197		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R41198		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R41199		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R41200-03		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	4	
R41204		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41205		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R41206		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R41207		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R41208		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41209		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R41210-12		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R41213		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41214		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R41215		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R41216,17		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R41218		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R41219		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41220		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R41221		ERJ6GEYG222	M.RESISTOR CH1/10W 2.2K	1	
R41222		ERJ6GEYG152	M.RESISTOR CH1/10W 1.5K	1	
R41223		ERJ6GEYG222	M.RESISTOR CH1/10W 2.2K	1	
R41224		ERJ6GEYG152	M.RESISTOR CH1/10W 1.5K	1	
R41226		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R41227-29		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R41230		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R41231		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R41232		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R41233,34		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R41235		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R41236,37		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R41252,53		ERDS2TJ273	C.RESISTOR 1/4W 27K	2	
SW41001		ESD145131	SWITCH	1	<R>
VR41001		EVN32CA00B24	V.RESISTOR 20K	1	
VR41002		EVMF6SA00B14	V.RESISTOR 10K	1	
VR41003		EVN32CA00B23	V.RESISTOR 2K	1	
VR41004		EVN32CA00B15	V.RESISTOR 100K	1	
VR41005		EVN32CA00B24	V.RESISTOR 20K	1	
VR41006		EVMF6SA00B14	V.RESISTOR 10K	1	
VR41007		EVN32CA00B53	V.RESISTOR 5K	1	
VR41008,09		EVN32CA00B23	V.RESISTOR 2K	2	
VR41012-14		EVN32CA00B53	V.RESISTOR 5K	3	
VR41015,16		EVN32CA00B23	V.RESISTOR 2K	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP04421D	P.C.BOARD W/COMPONENT		AG-7600E
			AUDIO (2)		
			CAPACITORS		
C41001		ECEA1CGE471	E.CAPACITOR 16V 470U	1	
C41003,04		ECEA1HGE3R3	E.CAPACITOR 50V 3.3U	2	
C41005		ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C41006		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C41007		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C41008		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C41009		ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	1	
C41010		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C41011		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41012		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C41013		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C41014-16		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C41017		ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	1	
C41018		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C41019		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C41020		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C41021,22		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C41023		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C41024		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41025		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C41026		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C41027		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C41028		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C41029		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C41030		ECEA1VGE330	E.CAPACITOR 35V 33U	1	
C41031		ECQV1H274JZ	P.CAPACITOR 50V 0.27U	1	
C41032,33		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C41034		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C41035,36		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C41038		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C41039		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C41040		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C41041		ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	1	
C41042-44		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C41045		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C41046		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C41047		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41048,49		ECQB1H223JF	P.CAPACITOR 50V 0.022U	2	
C41050		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C41051		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C41052		ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C41055,56		ECEA1HGE100	E.CAPACITOR 50V 10U	2	
C41057		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41058		ECEA1HGE220	E.CAPACITOR 50V 22U	1	
C41059		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41060		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C41061		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C41065,66		ECEA1CGE470	E.CAPACITOR 16V 47U	2	
C41067,68		ECEA1CN100S	E.CAPACITOR 16V 10U	2	
C41069,70		ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	2	
C41072-74		ECEA1CGE470	E.CAPACITOR 16V 47U	3	
C41075		ECEA1AGE221	E.CAPACITOR 10V 220U	1	
C41077		ECEA0JGE101	E.CAPACITOR 6.3V 100U	1	
C41080		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41082		ECEA1CGE221	E.CAPACITOR 16V 220U	1	
C41084		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41085		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C41086,87		ECEA1HGE100	E.CAPACITOR 50V 10U	2	
C41088		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41089		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C41090		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41091		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C41092		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41093		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C41094,95		ECEA1CGE470	E.CAPACITOR 16V 47U	2	
C41116		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C41117		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41118		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C41119		ECEA1CGE471	E.CAPACITOR 16V 470U	1	
C41121		ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	1	
C41122		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C41123		ECEA1HGE220	E.CAPACITOR 50V 22U	1	
C41124		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C41130		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
D41001-04		OA90	DIODE	4	<R>
D41005,06		MA3043	DIODE	2	<R>
D41007,08		MA4068M	DIODE	2	<R>
D41009		MA151K	DIODE	1	<R>
D41010		MA157	DIODE	1	<R>
D41012,13		MA3030	DIODE	2	<R>
D41014		MA3068	DIODE	1	<R>
D41015,16		MA151K	DIODE	2	<R>
D41017		MA153	DIODE	1	<R>
FL41001		VLF0697	FILTER	1	
IC41001		BA7705K1	IC	1	<R>
IC41002		AN78N05	IC	1	<R>
IC41003		AN3912	IC	1	<R>
IC41004		UPC4558G2	IC	1	<R>
IC41005		UPC393G2	IC	1	<R>
IC41006		MC14053BF	IC	1	<R>
IC41007		UPC4558G2	IC	1	<R>
IC41008		NJM2068MD	IC	1	<R>
IC41010-12		MC14053BF	IC	3	<R>
IC41013		UPC4558G2	IC	1	<R>
IC41014		MC14053BF	IC	1	<R>
IC41015		UPC4556G2	IC	1	<R>
IC41016,17		AN6558S	IC	2	<R>
L41001-03		VLQEL05S101J	COIL 100UH	3	
L41004-08		VLQEL06F102K	COIL 1000UH	5	
P41001		VJP3078	CONNECTOR (MALE)	1	
P41003		VJP3176B064	CONNECTOR (MALE)	1	
Q41002,03		2SD1306	TRANSISTOR	2	<R>
Q41006		MSD601-R	TRANSISTOR	1	<R>
Q41008		2SD1306	TRANSISTOR	1	<R>
Q41009		2SD638	TRANSISTOR	1	<R>
Q41010		2SB643	TRANSISTOR	1	<R>
Q41012-14		MSD601-R	TRANSISTOR	3	<R>
Q41015		2SD1328-R	TRANSISTOR	1	<R>
Q41016		2SD602A	TRANSISTOR	1	<R>
Q41017,18		2SD1306	TRANSISTOR	2	<R>
Q41036		2SB710	TRANSISTOR	1	<R>
Q41037		2SD1306	TRANSISTOR	1	<R>
Q41038,39		2SD1328-R	TRANSISTOR	2	<R>
Q41040		2SD1306	TRANSISTOR	1	<R>
Q41041,42		2SD1328-R	TRANSISTOR	2	<R>
Q41043		2SD1306	TRANSISTOR	1	<R>
Q41044,45		2SD1328-R	TRANSISTOR	2	<R>
Q41046		2SD1306	TRANSISTOR	1	<R>
Q41047,48		2SD1328-R	TRANSISTOR	2	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q41049		2SD601	TRANSISTOR	1	<R>
Q41051,52		2SD1306	TRANSISTOR	2	<R>
Q41053		2SB709A-R	TRANSISTOR	1	<R>
QR41002,03		MRN2403	TRANSISTOR-RESISTOR	2	<R>
QR41004		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR41006,07		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR41012		MRN1402	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R41003,04		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R41005,06		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R41007		ERJ6GEYJ225	M.RESISTOR CH1/10W 2.2M	1	
R41008,09		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	2	
R41010,11		ERJ6GEYG821	M.RESISTOR CH1/10W 820	2	
R41012		ERJ6GEYG681	M.RESISTOR CH1/10W 680	1	
R41013		VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R41014		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R41015		ERJ6GEYG183	M.RESISTOR CH1/10W 18K	1	
R41016		ERJ6GEYG562	M.RESISTOR CH1/10W 5.6K	1	
R41017		ERJ6GEYG104	M.RESISTOR CH1/10W 100K	1	
R41018		ERJ6GEYG303	M.RESISTOR CH1/10W 30K	1	
R41019		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R41020		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41021		VRE0034E393	M.RESISTOR CH 1/10W 39K	1	
R41022		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41023,24		VRE0034E223	M.RESISTOR CH 1/10W 22K	2	
R41025		ERJ6GEYG163	M.RESISTOR CH1/10W 16K	1	
R41026		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R41027		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41028,29		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R41030		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41031		ERJ6GEYJ823	M.RESISTOR CH1/10W 82K	1	
R41032		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41033,34		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	2	
R41035		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41038		ERJ6GEYG181	M.RESISTOR CH1/10W 180	1	
R41039		ERJ6GEYG103	M.RESISTOR CH1/10W 10K	1	
R41040		ERJ6GEYG303	M.RESISTOR CH1/10W 30K	1	
R41041		ERJ6GEYG104	M.RESISTOR CH1/10W 100K	1	
R41042		ERJ6GEYG562	M.RESISTOR CH1/10W 5.6K	1	
R41043		ERJ6GEYG183	M.RESISTOR CH1/10W 18K	1	
R41044		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R41045		VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R41046		ERJ6GEYG681	M.RESISTOR CH1/10W 680	1	
R41047,48		ERJ6GEYG821	M.RESISTOR CH1/10W 820	2	
R41049		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R41050		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41051		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R41062		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R41063		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R41064		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R41065		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R41066-71		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	6	
R41072,73		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	2	
R41074		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41075,76		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	2	
R41077		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41078		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41082		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41091		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41097		ERJ6GEYG680	M.RESISTOR CH1/10W 68	1	
R41098		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R41099		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41100		VRE0034E302	M.RESISTOR CH 1/10W 3K	1	
R41101		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R41102		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41103		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R41104		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41105,06		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R41107,08		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R41109-11		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R41112		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R41113		ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R41115		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41116		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R41117		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R41118		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41119		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41120		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R41121		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41122		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R41123		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R41124		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R41125		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R41126		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R41127,28		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	2	
R41129		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R41130		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41131		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41132,33		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	2	
R41134		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R41135		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R41136		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41149		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41183		ERJ6GEYG151	M.RESISTOR CH1/10W 150	1	
R41184		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41185		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41186		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R41187		ERJ6GEYG151	M.RESISTOR CH1/10W 150	1	
R41188		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R41189		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R41190		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41191		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R41192-94		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R41195		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41196		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R41197		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R41198		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R41199		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R41200-03		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	4	
R41204		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41205		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R41206		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R41207		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R41208		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41209		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R41210-12		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R41213		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R41214		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R41215		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R41216,17		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R41218		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R41219		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R41220		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R41228,29		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R41230		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R41231		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R41232		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R41233,34		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R41235		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R41236,37		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R41250,51		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
SW41001		ESD145131	SWITCH	1	<R>
VR41001		EVN32CA00B24	V.RESISTOR 20K	1	
VR41002		EVMF6SA00B14	V.RESISTOR 10K	1	
VR41004		EVN32CA00B15	V.RESISTOR 100K	1	
VR41005		EVN32CA00B24	V.RESISTOR 20K	1	
VR41006		EVMF6SA00B14	V.RESISTOR 10K	1	
VR41012-14		EVN32CA00B53	V.RESISTOR 5K	3	
		VEP05162K	P.C.BOARD W/COMPONENT		AG-7700E
			HEAD AMP		
			CAPACITORS		
C5001		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5002,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5004		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C5005		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5006-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C5009		ECUM1H182JN	C.CAPACITOR CH 50V 1800P	1	
C5010		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5011		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C5012		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C5013		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5014		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C5015		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5016		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5017		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C5018,19		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	2	
C5020		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5021		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C5022		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5023		ECUM1H020DCN	C.CAPACITOR CH 50V 2P	1	
C5024,25		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5026		ECUM1H020DCN	C.CAPACITOR CH 50V 2P	1	
C5027		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5028		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5029		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5030		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5031		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5032,33		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5034		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5035		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C5036		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5037,38		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C5039,40		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5042		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C5043		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C5044,45		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C5046		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C5047		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C5048		ECUM1H472ZFN	C.CAPACITOR CH 50V 4700P	1	
C5056		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5066		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
D5001,02		MA151K	DIODE	2	<R>
D5004		MA151K	DIODE	1	<R>
IC5001		AN3334K	IC	1	<R>
IC5002		BA7740FS	IC	1	<R>
L5001-04		VLQ0460	COIL	4	
P5001		VJP3091	CONNECTOR (MALE)	1	
P5002		VJS2603	CONNECTOR (FEMALE)	1	
P5003		VJP3091	CONNECTOR (MALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q5001		MSB709-R	TRANSISTOR	1	<R>
Q5002		MSC2295-B	TRANSISTOR	1	<R>
Q5003		XN4504	TRANSISTOR	1	<R>
Q5004,05		MSC2295-B	TRANSISTOR	2	<R>
QR5001		MRN1404	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R5001		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R5002		ERJ6GEYJ684	M.RESISTOR CH1/10W 680K	1	
R5003		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R5004		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R5005		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R5006		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R5007		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R5008		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R5009		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R5010		ERJ6GEYK1R0	M.RESISTOR CH1/10W 1.0	1	
R5011-14		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	4	
R5015-18		ERJ6GEYJ100	M.RESISTOR CH1/10W 10	4	
R5019		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R5020,21		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R5022		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R5026		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5027		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R5028		ERJ6GEYG243	M.RESISTOR CH1/10W 24K	1	
R5029		ERJ6GEYG273	M.RESISTOR CH1/10W 27K	1	
R5030		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R5031		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R5032		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R5033		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R5034		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R5036		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R5037,38		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	2	
R5039		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R5040		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R5041-43		ERJ6GEYJ100	M.RESISTOR CH1/10W 10	3	
R5044,45		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R5046,47		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5058		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5059		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R5061		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5062		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R5070		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
VR5001,02		EVN32CA00B23	V.RESISTOR 2K	2	
			MISCELLANEOUS		
E64		VSC3119	SHIELD COVER (MIDDLE)	1	
E65		VSC3039	SHIELD COVER (FRONT)	1	
E66		VSC3040	SHIELD COVER (REAR)	1	
		VEP05162L	P.C.BOARD W/COMPONENT		AG-7600E
			HEAD AMP		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CAPACITORS		
C5001		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5002,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5004		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C5005		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5010		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5013		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5014		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C5015		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5016		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5017		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C5018,19		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	2	
C5020		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5021		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C5022		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5023		ECUM1H020DCN	C.CAPACITOR CH 50V 2P	1	
C5024,25		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5026		ECUM1H020DCN	C.CAPACITOR CH 50V 2P	1	
C5027		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5028		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5029		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5032,33		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5034		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5035		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C5036		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5037		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C5039		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5042		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C5043		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C5044,45		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C5046		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C5047		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C5048		ECUM1H472ZFN	C.CAPACITOR CH 50V 4700P	1	
C5066		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
D5001,02		MA151K	DIODE	2	<R>
IC5001		AN3334K	IC	1	<R>
IC5002		BA7740FS	IC	1	<R>
L5001		VLQ0460	COIL	1	
L5003		VLQ0460	COIL	1	
P5001		VJP3091	CONNECTOR (MALE)	1	
P5002		VJS2603	CONNECTOR (FEMALE)	1	
P5003		VJP3091	CONNECTOR (MALE)	1	
Q5001		MSB709-R	TRANSISTOR	1	<R>
Q5003		XN4504	TRANSISTOR	1	<R>
Q5005		MSC2295-B	TRANSISTOR	1	<R>
QR5001		MRN1404	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R5001		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R5002		ERJ6GEYJ684	M.RESISTOR CH1/10W 680K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R5003		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R5004		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R5005		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R5006		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R5007		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R5010		ERJ6GEYK1R0	M.RESISTOR CH1/10W 1.0	1	
R5011-14		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	4	
R5015-18		ERJ6GEYJ100	M.RESISTOR CH1/10W 10	4	
R5019		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R5022		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R5026		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5027		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R5028		ERJ6GEYG243	M.RESISTOR CH1/10W 24K	1	
R5029		ERJ6GEYG273	M.RESISTOR CH1/10W 27K	1	
R5030		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R5031		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R5032		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R5034		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R5036		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R5037,38		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	2	
R5039		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R5041		ERJ6GEYJ180	M.RESISTOR CH1/10W 18	1	
R5042,43		ERJ6GEYJ100	M.RESISTOR CH1/10W 10	2	
R5044,45		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R5046,47		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5059		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
			MISCELLANEOUS		
E64		VSC3119	SHIELD COVER (MIDDLE)	1	
E65		VSC3039	SHIELD COVER (FRONT)	1	
E66		VSC3040	SHIELD COVER (REAR)	1	
		VEP06902E	P.C.BOARD W/COMPONENT		AG-7700E
			FRONT		
		VEP06929A	P.C.BOARD W/COMPONENT		ON VEP06902E
			FRONT LED		
		VEP06962A	P.C.BOARD W/COMPONENT		ON VEP06902E
			KEY BOARD		
			CAPACITORS		
C62002		ECEA1CKS470	E.CAPACITOR 16V 47U	1	
C62003		ECEA1AKS221	E.CAPACITOR 10V 220U	1	
C62004,05		ECEA1HKS220	E.CAPACITOR 50V 22U	2	
C62007		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C62008-10		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	3	
C62011		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C62012		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C62013		ECEA1AKS221	E.CAPACITOR 10V 220U	1	
C62014		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C62015,16		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
D62002		MA4056-M	DIODE	1	<R>
D62013-16		MA151K	DIODE	4	<R>
D62019,20		MA151K	DIODE	2	<R>
D62022		MA151K	DIODE	1	<R>
D62023-28		MA153	DIODE	6	<R>
D62029-31		MA152K	DIODE	3	<R>
D62032-35		MA151K	DIODE	4	<R>
D62036		MA701A	DIODE	1	<R>
D62047		MA152K	DIODE	1	<R>
D62048		MA151K	DIODE	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D62701-09		MA165	DIODE	9	<R>
DP62001		VSL0312	DISPLAY TUBE	1	
IC62001		UPD75236J025	IC	1	<R>
IC62002		UPC393G2	IC	1	<R>
IC62003		MN1382-R	IC	1	<R>
J62002		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J62004,05		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
J62007		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
L62001		VLQEL05K121K	COIL 120UH	1	
LD62010,11		LN31GCPHLG4	DIODE	2	
P62001-04		VJP3503	CONNECTOR (MALE)	4	
P62005		VJP1236T	CONNECTOR (MALE)	1	
P62006		VJS2949B010	CONNECTOR (FEMALE)	1	
P62007		VJP3076	CONNECTOR (MALE)	1	
P62008		VJP3093	CONNECTOR (MALE)	1	
P62009		VJS2889A018	CONNECTOR (FEMALE)	1	
P62501		VJS2949B010	CONNECTOR (FEMALE)	1	
P62701		VJS2949B018	CONNECTOR (FEMALE)	1	
Q62002-05		MSD601-R	TRANSISTOR	4	<R>
Q62006-09		MSB710-R	TRANSISTOR	4	<R>
QR62001		MRN1404	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R62001		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R62003		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R62004-11		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	8	
R62012-19		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	8	
R62020-24		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	5	
R62025		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R62026-36		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	11	
R62037-40		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	4	
R62041		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R62042-52		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	11	
R62059		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R62070,71		ERJ14YJ330	M.RESISTOR CH 1/4W 33	2	
R62076-79		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	4	
R62080		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R62081		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R62082		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R62083		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R62084		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R62085		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R62086		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R62087		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R62088,89		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	2	
R62090		ERJ6GEYJ564	M.RESISTOR CH1/10W 560K	1	
R62091		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R62092,93		ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	2	
R62094		ERJ6GEYJ564	M.RESISTOR CH1/10W 560K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R62095,96	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R62097-01	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	5	
R62102,03	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R62104	ERJ14YJ470	M.RESISTOR CH 1/4W 47	1	
R62105-07	ERJ14YJ330	M.RESISTOR CH 1/4W 33	3	
R62108	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R62109	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R62110-12	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	3	
R62701-03	ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R62704	ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R62705-09	ERDS2TJ560	C.RESISTOR 1/4W 56	5	
SW62010-13	EVQQJ104K	SWITCH	4	<R>
SW62015,16	VSS0225	SWITCH	2	<R>
SW62017	VSS0324	SWITCH	1	<R>
SW62019,20	VSS0225	SWITCH	2	<R>
SW62021	VSS0324	SWITCH	1	<R>
SW62022,23	VSS0225	SWITCH	2	<R>
SW62501	VSP0151	SWITCH	1	
SW62502-04	VSP0780	SWITCH	3	<R>
SW62701	VSP0791	SWITCH	1	<R>
SW62702	VSP0792	SWITCH	1	<R>
SW62703	VSP0788	SWITCH	1	<R>
SW62704	VSP0794	SWITCH	1	<R>
SW62705	VSP0790	SWITCH	1	<R>
SW62706	VSP0793	SWITCH	1	<R>
SW62707	VSP0795	SWITCH	1	<R>
SW62708	VSP0789	SWITCH	1	<R>
SW62709	VSP0795	SWITCH	1	<R>
X62001	VSX0140	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
E43	VMX0985	SPACER	1	
E73	VJF0960	DISPLAY HOLDER	1	
E74	VMX2062	LED SPACER	2	
E76	VMS4950	P.C.B. SUPPORT	2	
E79	XYN26+C5FR	SCREW	14	
E75	VMS5528	P.C.B. SUPPORT	5	
	VGF0506	SHIELD SHEET	1	
E77	VWJ10SW050L0	FLEXIBLE CABLE	1	
E78	VWJ18XW040L1	FLEXIBLE CABLE	1	
	VEP06902F	P.C.BOARD W/COMPONENT		AG-7600E
		FRONT		
	VEP06962B	P.C.BOARD W/COMPONENT		ON VEP06902F
		KEY BOARD		
		CAPACITORS		
C62002	ECEA1CKS470	E.CAPACITOR 16V 47U	1	
C62003	ECEA1AKS221	E.CAPACITOR 10V 220U	1	
C62004,05	ECEA1HKS220	E.CAPACITOR 50V 22U	2	
C62007	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C62008-10	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	3	
C62011	ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C62012	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C62013	ECEA1AKS221	E.CAPACITOR 10V 220U	1	
C62014	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C62015,16	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D62002	MA4056-M	DIODE	1	<R>
D62019,20	MA151K	DIODE	2	<R>
D62022	MA151K	DIODE	1	<R>
D62023-28	MA153	DIODE	6	<R>
D62029-31	MA152K	DIODE	3	<R>
D62032-35	MA151K	DIODE	4	<R>
D62036	MA701A	DIODE	1	<R>
D62047	MA152K	DIODE	1	<R>
D62701-07	MA165	DIODE	7	<R>
DP62001	VSL0312	DISPLAY TUBE	1	
IC62001	UPD75236J025	IC	1	<R>
IC62002	UPC393G2	IC	1	<R>
IC62003	MN1382-R	IC	1	
J62002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J62004-07	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
L62001	VLQEL05K121K	COIL 120UH	1	
LD62010,11	LN31GCPHLG4	DIODE	2	
P62001-04	VJP3503	CONNECTOR (MALE)	4	
P62005	VJP1236T	CONNECTOR (MALE)	1	
P62007	VJP3076	CONNECTOR (MALE)	1	
P62008	VJP3530	CONNECTOR (MALE)	1	
P62009	VJS2889A018	CONNECTOR (FEMALE)	1	
P62701	VJS2949B018	CONNECTOR (FEMALE)	1	
Q62002-05	MSD601-R	TRANSISTOR	4	<R>
Q62006-08	MSB710-R	TRANSISTOR	3	<R>
QR62001	MRN1404	TRANSISTOR-RESISTOR	1	<R>
		RESISTORS		
R62001	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R62003	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R62004-11	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	8	
R62012-19	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	8	
R62020-24	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	5	
R62025	ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R62026-36	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	11	
R62037-40	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	4	
R62041	ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R62042-52	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	11	
R62059	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R62070,71	ERJ14YJ330	M.RESISTOR CH 1/4W 33	2	
R62076-79	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	4	
R62080	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R62081	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R62082	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R62083	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R62084	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R62085		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R62088,89		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	2	
R62090		ERJ6GEYJ564	M.RESISTOR CH1/10W 560K	1	
R62091		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R62092,93		ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	2	
R62094		ERJ6GEYJ564	M.RESISTOR CH1/10W 560K	1	
R62095,96		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R62097-01		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	5	
R62102,03		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R62108		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R62109		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R62110-12		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	3	
R62701-03		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R62704		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R62705-07		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
SW62010-13		EVQQJ104K	SWITCH	4	<R>
SW62015-17		VSS0225	SWITCH	3	<R>
SW62020		VSS0225	SWITCH	1	<R>
SW62021		VSS0324	SWITCH	1	<R>
SW62022,23		VSS0225	SWITCH	2	<R>
SW62701		VSP0791	SWITCH	1	<R>
SW62702		VSP0792	SWITCH	1	<R>
SW62703		VSP0788	SWITCH	1	<R>
SW62704		VSP0794	SWITCH	1	<R>
SW62705		VSP0790	SWITCH	1	<R>
SW62706		VSP0793	SWITCH	1	<R>
SW62707		VSP0795	SWITCH	1	<R>
X62001		VSX0140	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E73		VJF0960	DISPLAY HOLDER	1	
E74		VMX2062	LED SPACER	2	
E79		XYN26+C5FR	SCREW	10	
E75		VMS5528	P.C.B. SUPPORT	5	
E77		VWJ10SW050L0	FLEXIBLE CABLE	1	
E78		VWJ18XW040L1	FLEXIBLE CABLE	1	
		VEP06904C	P.C.BOARD W/COMPONENT		AG-7700E
			SERVO SYSCON		
			CAPACITORS		
C1501		ECEA1VGE220	E.CAPACITOR 35V 22U	1	
C1502		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C1503		ECEA1DPS681	E.CAPACITOR 680U	1	
C1504		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C1505		ECEA1AGE221	E.CAPACITOR 10V 220U	1	
C1506		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C1507		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1508		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C1509,10		ECEA1CU101	E.CAPACITOR 16V 100U	2	
C1511		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C1512		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C1513		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C1514		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C1515		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C1517		ECEA1AU221	E.CAPACITOR 10V 220U	1	
C1518		ECEA1VU100	E.CAPACITOR 35V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1519		ECEA1EGE470	E.CAPACITOR 25V 47U	1	
C1520		ECEA1EGE221	E.CAPACITOR 25V 220U	1	
C1521		ECEA1EGE470	E.CAPACITOR 25V 47U	1	
C1522		ECEA1CGE102	E.CAPACITOR 16V 1000U	1	
C1523		ECEA1EGE470	E.CAPACITOR 25V 47U	1	
C1524		ECEA1EGE221	E.CAPACITOR 25V 220U	1	
C1525		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1526		ECEA1AGE471	E.CAPACITOR 10V 470U	1	
C1527		ECEA1EGE221	E.CAPACITOR 25V 220U	1	
C1529		ECEA1EGE471E	E.CAPACITOR 25V 470U	1	
C1530		ECEA1VGE220	E.CAPACITOR 35V 22U	1	
C1531		ECA0JFQ102	E.CAPACITOR 6.3V 1000U	1	
C1532		ECEA1AGE221	E.CAPACITOR 10V 220U	1	
C1533		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1534		ECEA1EGE221	E.CAPACITOR 25V 220U	1	
C1541		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1542		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2001		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2002		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C2003		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C2004		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2005		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2006		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2007		ECEA1AU330	E.CAPACITOR 10V 33U	1	
C2008		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C2009		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2010		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2011		ECEA1AU220	E.CAPACITOR 10V 22U	1	
C2012		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C2013-15		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2016,17		ECEA0JU470	E.CAPACITOR 6.3V 47U	2	
C2018		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2019		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2020		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2021		ECQB1H152JF	P.CAPACITOR 50V 1500P	1	
C2022		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2023		ECQV1H184JZ	P.CAPACITOR 50V 0.18U	1	
C2024		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	1	
C2025		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2026		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C2027		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2028		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2029		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C2030		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C2031		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C2032		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2033,34		ECEA1CU100	E.CAPACITOR 16V 10U	2	
C2035		ECEA1HUR47	E.CAPACITOR 50V 0.47U	1	
C2044,45		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2	
C2046		ECEA1HUR47	E.CAPACITOR 50V 0.47U	1	
C2047		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2050		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2201		ECEA0JGE470	E.CAPACITOR 6.3V 47U	1	
C2202,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2204,05		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C2206		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2207,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2209,10		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C2214		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2215		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2216		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2217,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2219		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2220,21		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2222		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2223,24		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2225		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2226		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2227		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2228-30		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2231		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2232-34		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2235		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C2236		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C2237,38		ECEA0JU470	E.CAPACITOR 6.3V 47U	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2239-41		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2243		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2244		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C2245-47		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2318,19		ECEA0JU470	E.CAPACITOR 6.3V 47U	2	
C2320		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2321		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2322		ECEA1HN4R7S	E.CAPACITOR 50V 4.7U	1	
C2323		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C2327,28		ECEA0JU470	E.CAPACITOR 6.3V 47U	2	
C2330		ECQP1H103JZ	P.CAPACITOR 50V 0.01U	1	
C2331		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2335,36		ECEA0JU470	E.CAPACITOR 6.3V 47U	2	
C2338		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C2339		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C2340-44		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C2350		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C2351		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2352,53		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C2354		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2355		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C2401,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2403		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C2404,05		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C2406-09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C2410		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2501		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2502		ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C2503		ECQB1H273JF	P.CAPACITOR 50V 0.027U	1	
C2504		ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C2510		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C2512-14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2516-19		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C2701		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C2702		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C2703		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C2704		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C2705		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C2709		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C2710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2711		ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C2712		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C2714		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2716,17		ECEA1EU101	E.CAPACITOR 25V 100U	2	
C2718		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2722		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	1	
C2723		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C2724		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	1	
C2725		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C2726		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2727-30		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	4	
C2731-33		ECEA1HN4R7S	E.CAPACITOR 50V 4.7U	3	
C2734		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2735		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2736		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C2737		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2738		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C2739		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2740		ECEA1EU470	E.CAPACITOR 25V 47U	1	
C2741		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C2742		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2744-46		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	3	
C2747-50		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	4	
C2751-53		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2754		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2755-57		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	3	
C2758		ECEA1HNR47S	E.CAPACITOR 50V 0.47U	1	
C2759		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C2760		ECEA1HN2R2S	E.CAPACITOR 50V 2.2U	1	
C2761		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2762		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	1	
C2763		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2764		ECEA0JU220	E.CAPACITOR 6.3V 22U	1	
C2765		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C2766		ECEA1HN2R2S	E.CAPACITOR 50V 2.2U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2767		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2768		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	1	
C2769,70		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	2	
C2793		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C2804,05		ECEA1EU472	E.CAPACITOR 25V 4700U	2	
C2806		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C60001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C60002,03		ECEA1CU102	E.CAPACITOR 16V 1000U	2	
C60005		ECEA0JU332	E.CAPACITOR 6.3V 3300U	1	
C60006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C60007		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C60008		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C60009		ECEA0JU332	E.CAPACITOR 6.3V 3300U	1	
C60010		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C60011		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C60012		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C60013		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C60016		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C60017		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C60018,19		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C60022		ECEA1AU220	E.CAPACITOR 10V 22U	1	
C60023		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C60024		ECEA0JU682	E.CAPACITOR 6.3V 6800U	1	
C60101		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C60102		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C60103-06		ECQB1H102JF	P.CAPACITOR 50V 1000P	4	
C60107		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C60108		ECEA1CU221	E.CAPACITOR 16V 220U	1	
C60109		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C60110,11		ECEA1CU100	E.CAPACITOR 16V 10U	2	
C60112		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C60501		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C60502		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C60503		ECEA1HN010S	E.CAPACITOR 50V 1U	1	
C60504		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C60505		ECEA1EN101S	E.CAPACITOR 25V 100U	1	
C60506		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C60507		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C60508,09		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
D1502-04		MA151K	DIODE	3	<R>
D1505		MA701A	DIODE	1	<R>
D1507		MA151K	DIODE	1	<R>
D1508		MA3020	DIODE	1	<R>
D1509		8P2M	DIODE	1	<R>
D1510		MA165	DIODE	1	<R>
D1511		MA151K	DIODE	1	<R>
D1512		VSD0002	DIODE	1	<R>
D1513		AK04	DIODE	1	<R>
D1514		MA1270-M	DIODE	1	<R>
D1515		MA185	DIODE	1	<R>
D1516		MA4075M	DIODE	1	<R>
D1517		MA4130M	DIODE	1	<R>
D1518		MA4120-M	DIODE	1	<R>
D1519,20		MA151K	DIODE	2	<R>
D1522		MA3160-L	DIODE	1	<R>
D1523		11EQS04	DIODE	1	<R>
D1524		MA4047M	DIODE	1	<R>
D1525,26		MA723VT	DIODE	2	<R>
D1528		MA4056M	DIODE	1	<R>
D1529		MA165	DIODE	1	<R>
D1530		MA4075M	DIODE	1	<R>
D1531		MA151K	DIODE	1	<R>
D1532		MA3068-M	DIODE	1	<R>
D1541		MA3091-M	DIODE	1	<R>
D1542		MA4039	DIODE	1	<R>
D1543,44		MA151K	DIODE	2	<R>
D2001		MA151K	DIODE	1	<R>
D2002		MA151WA	DIODE	1	<R>
D2003		MA151K	DIODE	1	<R>
D2006		MA151WA	DIODE	1	<R>
D2007,08		MA151K	DIODE	2	<R>
D2308		MA151K	DIODE	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D2309		MA151WK	DIODE	1	<R>
D2310		MA153	DIODE	1	<R>
D2401		MA151K	DIODE	1	<R>
D2501,02		MA151K	DIODE	2	<R>
D2701		MA4180-L	DIODE	1	<R>
D2703		MA4160-L	DIODE	1	<R>
D2704		11DQ04	DIODE	1	<R>
D2705		MA151K	DIODE	1	<R>
D2715,16		11DQ04	DIODE	2	<R>
D2717-19		11EQS04	DIODE	3	<R>
D2720		MA153	DIODE	1	<R>
D2721		11EQS04	DIODE	1	<R>
D2722		MA153	DIODE	1	<R>
D2723		11EQS04	DIODE	1	<R>
D2727		11EQS04	DIODE	1	<R>
D2734,35		MA4160-L	DIODE	2	<R>
D2736-38		MA4160-M	DIODE	3	<R>
D2741,42		MA4062M	DIODE	2	<R>
D2743		MA723VT	DIODE	1	<R>
D60001		11EQS04	DIODE	1	<R>
D60002		MA170	DIODE	1	<R>
D60003-06		11EQS04	DIODE	4	<R>
D60501,02		MA151K	DIODE	2	<R>
D60503		10E1	DIODE	1	<R>
D60504		MA151K	DIODE	1	<R>
D60505		MA170	DIODE	1	<R>
D60506		MA151K	DIODE	1	<R>
FA2202		VLF1036D101	FILTER	1	
FL2201-06		VLF0634	FILTER	6	
FL60001		VLF0630	FILTER	1	
IC1501		LM393PS	IC	1	<R>
IC1502		AN7912F	IC	1	<R>
IC1503		AN7905F	IC	1	<R>
IC1505,06		TL431CLP	IC	2	<R>
IC2001		MN6742VMEG	IC	1	<R>
IC2002		MN1382-R	IC	1	
IC2003		BA226F	IC	1	<R>
IC2004		MC14052BF	IC	1	<R>
IC2006		TC4S30F	IC	1	<R>
IC2007,08		MN53015VZW	IC	2	<R>
IC2010		LM339NS	IC	1	<R>
IC2012		MC74HCU04F	IC	1	<R>
IC2013		LM358PS	IC	1	<R>
IC2014		TC7S32F	IC	1	<R>
IC2201		MN19041VMCX	IC	1	<R>
IC2202		L7A0269	IC	1	<R>
IC2203		PCM55HP	IC	1	<R>
IC2206		MC14050BF	IC	1	<R>
IC2207		LM358PS	IC	1	<R>
IC2302		NJM4556MB	IC	1	<R>
IC2303		LM358PS	IC	1	<R>
IC2304		LM393PS	IC	1	<R>
IC2305		MC14053BF	IC	1	<R>
IC2310		BA6302AF	IC	1	<R>
IC2311		MC14053BF	IC	1	<R>
IC2312		MC14013BF	IC	1	<R>
IC2401		MC14013BF	IC	1	<R>
IC2402		TC4W53F	IC	1	<R>
IC2403,04		TC7S02F	IC	2	<R>
IC2405		TC7S08F	IC	1	<R>
IC2406		M50927-531SP	IC	1	<R>
IC2501,02		LM324NS	IC	2	<R>
IC2503		LM393PS	IC	1	<R>
IC2505		MC14053BF	IC	1	<R>
IC2506		MC14052BF	IC	1	<R>
IC2507		MC14053BF	IC	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC2701		BA6149LS	IC	1	<R>
IC2703		AN3815K	IC	1	<R>
IC2704		XRA6435S	IC	1	<R>
IC2705		LM393PS	IC	1	<R>
IC2706		LM358PS	IC	1	<R>
IC2707		LM393PS	IC	1	<R>
IC2708		LM358PS	IC	1	<R>
IC2709		LM393PS	IC	1	<R>
IC2710,11		UPC4556G2	IC	2	<R>
IC2715		AN78N12	IC	1	<R>
IC60001		TD62503F	IC	1	<R>
IC60002		MN188166VCTG	IC	1	<R>
IC60003		MN1382-R	IC	1	
IC60101		LM324NS	IC	1	<R>
IC60501		LM393PS	IC	1	<R>
IC60502		M54649L	IC	1	<R>
IC60503		MN1382-R	IC	1	
J2002-04		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
J2007		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J2202		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J2204,05		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
J2207-12		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	6	
J60001		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J60003		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J60005,06		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
K1501		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
K1502		ERDS2T0	C.RESISTOR 1/4W 0	1	
L1501		VLQEL06F101K	COIL 100UH	1	
L1502,03		VLP0074	COIL	2	
L2001,02		VLQEL05S470J	COIL 47UH	2	
L2004-06		VLQEL05S470J	COIL 47UH	3	
L2007		VLP0054	COIL	1	
L2008		VLQEL05S470J	COIL 47UH	1	
L2201,02		VLQEL05S2R2K	COIL 2.2UH	2	
L2203-05		VLP0054	COIL	3	
L2206,07		VLQEL05S2R2K	COIL 2.2UH	2	
L2208		VLQEL05S470J	COIL 47UH	1	
L2301-04		VLQEL05S470J	COIL 47UH	4	
L2401		VLQEL05S470J	COIL 47UH	1	
L2502		VLQEL05S470J	COIL 47UH	1	
L2701		VLQ0128	COIL	1	
L2702-04		VLQ0129	COIL	3	
L2705		VLQEL05S470J	COIL 47UH	1	
L2707		VLQEL05S470J	COIL 47UH	1	
L2711		VLQEL05S470J	COIL 47UH	1	
L60001		VLQEL05S471K	COIL 470UH	1	
L60002		VLQEL05S470J	COIL 47UH	1	
L60501		VLQEL05S150K	COIL 15UH	1	
P1501		VJP1146T	CONNECTOR (MALE)	1	
P1502		VJP3076	CONNECTOR (MALE)	1	
P1503		VJP1147	CONNECTOR (MALE)	1	
P2201-03		VJS3202B020Z	CONNECTOR (FEMALE)	3	
P2301		VJP1230T	CONNECTOR (MALE)	1	
P2701		VJP3078	CONNECTOR (MALE)	1	
P2702		VJP3083	CONNECTOR (MALE)	1	
P2703		VJS2149W	CONNECTOR (FEMALE)	1	
P60001		VJP1230R	CONNECTOR (MALE)	1	
P60003		VJS3135	CONNECTOR (FEMALE)	1	
P60501		VJS2149W	CONNECTOR (FEMALE)	1	
P60502		VJP1230T	CONNECTOR (MALE)	1	
P60503		VJS3134	CONNECTOR (FEMALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1501	2SD1474	TRANSISTOR	1	<R>
Q1502	2SD973A-R	TRANSISTOR	1	<R>
Q1503	2SD1474	TRANSISTOR	1	<R>
Q1504	2SD1273	TRANSISTOR	1	<R>
Q1505	2SD973A	TRANSISTOR	1	<R>
Q2001	MSC2295-B	TRANSISTOR	1	<R>
Q2302-05	MSD601-R	TRANSISTOR	4	<R>
Q2703	MSB709-R	TRANSISTOR	1	<R>
Q2704	2SB1151	TRANSISTOR	1	<R>
Q2705-07	2SD601A-R	TRANSISTOR	3	<R>
Q2709-11	2SB772	TRANSISTOR	3	<R>
Q2713-16	MSB709-R	TRANSISTOR	4	<R>
Q60001	2SD638	TRANSISTOR	1	<R>
Q60002	MSB709-R	TRANSISTOR	1	<R>
Q60003	2SB819	TRANSISTOR	1	<R>
Q60004	MSD601-R	TRANSISTOR	1	<R>
Q60005	2SB819	TRANSISTOR	1	<R>
Q60006	MSD601-R	TRANSISTOR	1	<R>
Q60007	MSD602-R	TRANSISTOR	1	<R>
Q60008	2SD636	TRANSISTOR	1	<R>
Q60501-03	MSD601-R	TRANSISTOR	3	<R>
Q60504	2SB819	TRANSISTOR	1	<R>
Q60505	MSD601-R	TRANSISTOR	1	<R>
Q60506	2SD1273-Q	TRANSISTOR	1	<R>
Q60507	MSD601-R	TRANSISTOR	1	<R>
Q60508	2SB941	TRANSISTOR	1	<R>
Q60509	MSD601-R	TRANSISTOR	1	<R>
QR1502	MRN2402	TRANSISTOR-RESISTOR	1	<R>
QR1503	MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR1541	UN2219	TRANSISTOR-RESISTOR	1	<R>
QR2005	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR2304,05	MRN2402	TRANSISTOR-RESISTOR	2	<R>
QR2306	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR2308	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR2309	MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR2310	MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR2311,12	MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR2313	MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR2314	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR2401	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR2402	MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR2501-05	MRN1404	TRANSISTOR-RESISTOR	5	<R>
QR2701	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR2702	MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR2703	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR2704	MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR60001	MRN2402	TRANSISTOR-RESISTOR	1	<R>
QR60002	MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR60003	MRN2402	TRANSISTOR-RESISTOR	1	<R>
QR60004	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR60007,08	MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR60010	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR60013	MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR60501	MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR60502	UN211F	TRANSISTOR-RESISTOR	1	<R>
QR60503	MRN1404	TRANSISTOR-RESISTOR	1	<R>
		RESISTORS		
R1501	ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R1502	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R1504	ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R1505	VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R1506	VRE0034E473	M.RESISTOR CH 1/10W 47K	1	
R1507	VRE0034E222	M.RESISTOR CH 1/10W 2.2K	1	
R1509	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R1510	ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R1511	ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R1512-14	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R1515	ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R1516-18	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R1519	ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R1520	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R1521	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R1522	ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R1525	ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R1526,27	ERJ6GEYJ331	M.RESISTOR CH1/10W 330	2	
R1528,29	ERDS2TJ181	C.RESISTOR 1/4W 180	2	
R1531	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R1532	VRE0034E562	M.RESISTOR CH 1/10W 5.6K	1	
R1533	VRE0034E392	M.RESISTOR CH 1/10W 3.9K	1	
R1534	VRE0034E222	M.RESISTOR CH 1/10W 2.2K	1	
R1535	ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R1536	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R1541,42	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2001	ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R2002	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2003,04	ERJ6GEYF333	M.RESISTOR CH1/10W 33K	2	
R2005-07	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	3	
R2008	ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R2009,10	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R2013	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R2017,18	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2019	ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R2020	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2021	ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	
R2022	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R2023	ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R2024,25	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2026	ERJ6GEYJ184	M.RESISTOR CH1/10W 180K	1	
R2027	ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R2028	ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R2029	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R2030	ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R2031	ERJ6GEYG241	M.RESISTOR CH1/10W 240	1	
R2032	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R2033	ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R2035,36	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	2	
R2047	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R2048	ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R2049	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2051	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R2054-56	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	3	
R2059,60	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	2	
R2062	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R2064	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2067,68	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R2201	ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R2202	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R2203	ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R2205,06	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R2207	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2208	ERJ6GEYG104	M.RESISTOR CH1/10W 100K	1	
R2211	ERJ6GEYG473	M.RESISTOR CH1/10W 47K	1	
R2212	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2213-18	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	6	
R2220-23	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	4	
R2240	ERJ6GEYG473	M.RESISTOR CH1/10W 47K	1	
R2241	ERJ6GEYG104	M.RESISTOR CH1/10W 100K	1	
R2242	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R2331	ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R2332	ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	
R2333	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R2334	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2335	ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R2336	ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R2337	ERJ6GEYG242	M.RESISTOR CH1/10W 2.4K	1	
R2338	ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R2339	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2340,41	ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	2	
R2342	ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R2343	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R2344	ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R2345	ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R2346	ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2347		ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R2352		ERJ6GEYJ752	M.RESISTOR CH1/10W 7.5K	1	
R2353,54		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2355		ERJ6GEYJ752	M.RESISTOR CH1/10W 7.5K	1	
R2356		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2357,58		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	2	
R2359		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2360,61		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R2362		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R2363		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R2364		ERJ6GEYG913	M.RESISTOR CH1/10W 91K	1	
R2370,71		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2372		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R2373		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R2374		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R2375		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R2376		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R2377		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R2378		ERJ6GEYJ154	M.RESISTOR CH1/10W 150K	1	
R2379		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2380		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R2381		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R2401		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R2402,03		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R2404,05		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R2406		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R2407,08		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R2409		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2410		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R2411		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R2501		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R2502		ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R2503		ERJ6GEYJ274	M.RESISTOR CH1/10W 270K	1	
R2504		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R2505		ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R2506		ERJ6GEYJ154	M.RESISTOR CH1/10W 150K	1	
R2507-10		ERJ6GEYG104	M.RESISTOR CH1/10W 100K	4	
R2511-15		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	5	
R2516		ERJ6GEYG393	M.RESISTOR CH1/10W 39K	1	
R2517		ERJ6GEYG223	M.RESISTOR CH1/10W 22K	1	
R2518-20		ERJ6GEYG124	M.RESISTOR CH1/10W 120K	3	
R2521		ERJ6GEYG154	M.RESISTOR CH1/10W 150K	1	
R2522		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2523,24		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R2701		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R2709,10		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2711		ERJ6GEYJ154	M.RESISTOR CH1/10W 150K	1	
R2712		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2713		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R2714-17		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	4	
R2718		ERG2SJ561	M.RESISTOR 2W 560	1	
R2719		ERDS2TJ270	C.RESISTOR 1/4W 27	1	
R2725		ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R2727		ERDS2TJ150	C.RESISTOR 1/4W 15	1	
R2729		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R2730		ERDS2TJ182	C.RESISTOR 1/4W 1.8K	1	
R2731		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2732		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R2733		ERDS2TJ182	C.RESISTOR 1/4W 1.8K	1	
R2734		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R2735		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2736		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R2738,39		ERDS2TJ150	C.RESISTOR 1/4W 15	2	
R2740		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R2743		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R2747		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2748		ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R2751		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R2752-54		ERDS2TJ330	C.RESISTOR 1/4W 33	3	
R2755		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2756		ERJ6GEYJ330	M.RESISTOR CH1/10W 33	1	
R2757		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2758		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R2759		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R2760		ERJ6GEYJ184	M.RESISTOR CH1/10W 180K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2761,62		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2763,64		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R2765		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2766		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R2767		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R2768		ERJ6GEYJ184	M.RESISTOR CH1/10W 180K	1	
R2769,70		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2771,72		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R2773,74		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2775		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R2776		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R2777		ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R2778-82		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	5	
R2783		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R2784		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2785		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R2786,87		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2788		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R2789		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R2790		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R2791		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R2792		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2793		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R2794		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R2795		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R2796		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R2799,00		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R2803		ERG2SJ221	M.RESISTOR 2W 220	1	
R2821		ERDS2TJ682	C.RESISTOR 1/4W 6.8K	1	
R2828,29		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R2830		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R2831		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R2832		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R2833		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R2834		ERDS2TJ182	C.RESISTOR. 1/4W 1.8K	1	
R2835		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R2836		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2838,39		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2840		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R2841		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2842,43		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2844		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R2845		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2846-48		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	3	
R2849		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R2850		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R2862,63		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R60001		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60002		ERD2FCG220	C.RESISTOR 2W 22	1	
R60003		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60004		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R60005		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R60006		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60007		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R60008		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60009		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R60010		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R60011		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R60012		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R60013		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R60015		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60016		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R60017,18		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R60019		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R60020		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R60021-24		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	4	
R60025		ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R60026-29		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	4	
R60030		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R60031		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60032-35		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	4	
R60040		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R60043,44		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	2	
R60045		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60047		ERG1SJ330	M.RESISTOR 1W 33	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R60048,49		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	2	
R60050		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R60101		ERJ6GEYG102	M.RESISTOR CH1/10W 1K	1	
R60102		ERJ6GEYG302	M.RESISTOR CH1/10W 3K	1	
R60103-05		ERJ6GEYG102	M.RESISTOR CH1/10W 1K	3	
R60106		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R60107		ERJ6GEYJ823	M.RESISTOR CH1/10W 82K	1	
R60108-11		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	4	
R60501		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R60502,03		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	2	
R60504		ERJ6GEYG181	M.RESISTOR CH1/10W 180	1	
R60505		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R60506		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R60507,08		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R60509		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R60510,11		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	2	
R60512		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R60513		ERJ6GEYJ121	M.RESISTOR CH1/10W 120	1	
R60514		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R60515		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R60516		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R60517,18		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	2	
R60519		ERJ6GEYG181	M.RESISTOR CH1/10W 180	1	
R60520,21		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	2	
R60522		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R60523		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R60524		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60525		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R60526		ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	
R60527,28		ERG1SJ300	M.RESISTOR 1W 30	2	
R60529		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R60530		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
T1501		ETE13K86AY	TRANSFORMER	1	
T60001		EIQ7QF002B	TRANSFORMER	1	
VR2001		EVN32CA00B54	V.RESISTOR 50K	1	
VR2003		EVN32CA00B15	V.RESISTOR 100K	1	
X2001		VSX0296	CRYSTAL OSCILLATOR	1	<R>
X2002		VSX0066	CRYSTAL OSCILLATOR	1	<R>
X2201		VSX0197	CRYSTAL OSCILLATOR	1	<R>
X2401		VSX0086	CRYSTAL OSCILLATOR	1	<R>
X2701		VSX0136	CRYSTAL OSCILLATOR	1	<R>
X60001		VSX0230	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E43		VMX0985	SPACER	2	
E52		XYN3+F8	SCREW	2	
E80		VSC4042	HEAT SINK	2	
E82		VMC0493	HEAT SINK SPRING	1	
E84		VMC0075	HEAT SINK SPRING	1	
E83		VSC1215	IC HEAT SINK	1	
E42		VJF0816	CORD CLAMPER	1	
E81		VSC1689	HEAT SINK	1	
		VEP06904D	P.C.BOARD W/COMPONENT		AG-7600E
			SERVO SYSCON		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CAPACITORS		
C1501		ECEA1VGE220	E.CAPACITOR 35V 22U	1	
C1502		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C1503		ECEA1DPS681	E.CAPACITOR 680U	1	
C1504		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C1505		ECEA1AGE221	E.CAPACITOR 10V 220U	1	
C1506		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C1507		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1508		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C1509,10		ECEA1CU101	E.CAPACITOR 16V 100U	2	
C1511		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C1512		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C1513		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C1514		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C1515		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C1517		ECEA1AU221	E.CAPACITOR 10V 220U	1	
C1518		ECEA1VU100	E.CAPACITOR 35V 10U	1	
C1519		ECEA1EGE470	E.CAPACITOR 25V 47U	1	
C1520		ECEA1EGE221	E.CAPACITOR 25V 220U	1	
C1521		ECEA1EGE470	E.CAPACITOR 25V 47U	1	
C1522		ECEA1CGE102	E.CAPACITOR 16V 1000U	1	
C1523		ECEA1EGE470	E.CAPACITOR 25V 47U	1	
C1524		ECEA1EGE221	E.CAPACITOR 25V 220U	1	
C1525		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1526		ECEA1AGE471	E.CAPACITOR 10V 470U	1	
C1527		ECEA1EGE221	E.CAPACITOR 25V 220U	1	
C1529		ECEA1EGE471E	E.CAPACITOR 25V 470U	1	
C1530		ECEA1VGE220	E.CAPACITOR 35V 22U	1	
C1531		ECA0JFQ102	E.CAPACITOR 6.3V 1000U	1	
C1532		ECEA1AGE221	E.CAPACITOR 10V 220U	1	
C1533		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1534		ECEA1EGE221	E.CAPACITOR 25V 220U	1	
C1541		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1542		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2001		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2002		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C2003		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C2004		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2005		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2006		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2007		ECEA1AU330	E.CAPACITOR 10V 33U	1	
C2008		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C2009		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2010		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2011		ECEA1AU220	E.CAPACITOR 10V 22U	1	
C2012		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C2013-15		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2016,17		ECEA0JU470	E.CAPACITOR 6.3V 47U	2	
C2018		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2019		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2020		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2021		ECQB1H152JF	P.CAPACITOR 50V 1500P	1	
C2022		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2023		ECQV1H184JZ	P.CAPACITOR 50V 0.18U	1	
C2025		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2027		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2028		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2029		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C2030		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C2031		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C2032		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2033,34		ECEA1CU100	E.CAPACITOR 16V 10U	2	
C2035		ECEA1HUR47	E.CAPACITOR 50V 0.47U	1	
C2044,45		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2	
C2047		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2050		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2201		ECEA0JGE470	E.CAPACITOR 6.3V 47U	1	
C2202,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2204,05		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C2206		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2207,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2209,10		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C2214		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2215		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2216		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2217,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2219		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2220,21		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2222		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2223,24		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2225		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2226		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2227		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2228-30		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2231		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2232-34		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2235		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C2236		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C2237,38		ECEA0JU470	E.CAPACITOR 6.3V 47U	2	
C2239-41		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2243		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2244		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C2245-47		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2318,19		ECEA0JU470	E.CAPACITOR 6.3V 47U	2	
C2320		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2321		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2322		ECEA1HN4R7S	E.CAPACITOR 50V 4.7U	1	
C2323		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C2327,28		ECEA0JU470	E.CAPACITOR 6.3V 47U	2	
C2330		ECQP1H103JZ	P.CAPACITOR 50V 0.01U	1	
C2331		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2335,36		ECEA0JU470	E.CAPACITOR 6.3V 47U	2	
C2338		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C2339		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C2340-42		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2401,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2403		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C2404,05		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C2406-09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C2410		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2501		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2502		ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C2503		ECQB1H273JF	P.CAPACITOR 50V 0.027U	1	
C2504		ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C2510		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C2512-14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2516-19		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C2701		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C2702		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C2703		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C2704		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C2705		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C2709		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C2710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2711		ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C2712		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C2714		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2716,17		ECEA1EU101	E.CAPACITOR 25V 100U	2	
C2718		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2722		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	1	
C2723		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C2724		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	1	
C2725		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C2726		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2727-30		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	4	
C2731-33		ECEA1HN4R7S	E.CAPACITOR 50V 4.7U	3	
C2734		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2735		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2736		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C2737		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2738		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C2739		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2740		ECEA1EU470	E.CAPACITOR 25V 47U	1	
C2741		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C2742		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2744-46		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	3	
C2747-50		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	4	
C2751-53		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2754		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2755-57		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	3	
C2758		ECEA1HNR47S	E.CAPACITOR 50V 0.47U	1	
C2759		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C2760		ECEA1HN2R2S	E.CAPACITOR 50V 2.2U	1	
C2761		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2762		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	1	
C2763		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C2764		ECEA0JU220	E.CAPACITOR 6.3V 22U	1	
C2765		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C2766		ECEA1HN2R2S	E.CAPACITOR 50V 2.2U	1	
C2767		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2768		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	1	
C2769,70		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	2	
C2793		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C2804,05		ECEA1EU472	E.CAPACITOR 25V 4700U	2	
C2806		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C60001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C60002,03		ECEA1CU102	E.CAPACITOR 16V 1000U	2	
C60005		ECEA0JU332	E.CAPACITOR 6.3V 3300U	1	
C60006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C60007		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C60008		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C60009		ECEA0JU332	E.CAPACITOR 6.3V 3300U	1	
C60016		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C60018,19		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C60022		ECEA1AU220	E.CAPACITOR 10V 22U	1	
C60023		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C60024		ECEA0JU682	E.CAPACITOR 6.3V 6800U	1	
C60101		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C60102		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C60103-06		ECQB1H102JF	P.CAPACITOR 50V 1000P	4	
C60107		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C60108		ECEA1CU221	E.CAPACITOR 16V 220U	1	
C60109		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C60110,11		ECEA1CU100	E.CAPACITOR 16V 10U	2	
C60112		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C60501		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C60502		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C60503		ECEA1HN010S	E.CAPACITOR 50V 1U	1	
C60504		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C60505		ECEA1EN101S	E.CAPACITOR 25V 100U	1	
C60506		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C60507		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C60508,09		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
D1502-04		MA151K	DIODE	3	<R>
D1505		MA701A	DIODE	1	<R>
D1507		MA151K	DIODE	1	<R>
D1508		MA3020	DIODE	1	<R>
D1509		8P2M	DIODE	1	<R>
D1510		MA165	DIODE	1	<R>
D1511		MA151K	DIODE	1	<R>
D1512		VSD0002	DIODE	1	<R>
D1513		AK04	DIODE	1	<R>
D1514		MA1270-M	DIODE	1	<R>
D1515		MA185	DIODE	1	<R>
D1516		MA4075M	DIODE	1	<R>
D1517		MA4130M	DIODE	1	<R>
D1518		MA4120-M	DIODE	1	<R>
D1519,20		MA151K	DIODE	2	<R>
D1522		MA3160-L	DIODE	1	<R>
D1523		11EQS04	DIODE	1	<R>
D1524		MA4047M	DIODE	1	<R>
D1525,26		MA723VT	DIODE	2	<R>
D1528		MA4056M	DIODE	1	<R>
D1529		MA165	DIODE	1	<R>
D1530		MA4075M	DIODE	1	<R>
D1531		MA151K	DIODE	1	<R>
D1532		MA3068-M	DIODE	1	<R>
D1541		MA3091-M	DIODE	1	<R>
D1542		MA4039	DIODE	1	<R>
D1543,44		MA151K	DIODE	2	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D2002		MA151WA	DIODE	1	<R>
D2003		MA151K	DIODE	1	<R>
D2006		MA151WA	DIODE	1	<R>
D2007,08		MA151K	DIODE	2	<R>
D2308		MA151K	DIODE	1	<R>
D2309		MA151WK	DIODE	1	<R>
D2401		MA151K	DIODE	1	<R>
D2501,02		MA151K	DIODE	2	<R>
D2701		MA4180-L	DIODE	1	<R>
D2703		MA4160-L	DIODE	1	<R>
D2704		11DQ04	DIODE	1	<R>
D2705		MA151K	DIODE	1	<R>
D2715,16		11DQ04	DIODE	2	<R>
D2717-19		11EQS04	DIODE	3	<R>
D2720		MA153	DIODE	1	<R>
D2721		11EQS04	DIODE	1	<R>
D2722		MA153	DIODE	1	<R>
D2723		11EQS04	DIODE	1	<R>
D2727		11EQS04	DIODE	1	<R>
D2734,35		MA4160-L	DIODE	2	<R>
D2736-38		MA4160-M	DIODE	3	<R>
D2741,42		MA4062M	DIODE	2	<R>
D2743		MA723VT	DIODE	1	<R>
D60001		11EQS04	DIODE	1	<R>
D60002		MA170	DIODE	1	<R>
D60003-06		11EQS04	DIODE	4	<R>
D60501,02		MA151K	DIODE	2	<R>
D60503		10E1	DIODE	1	<R>
D60504		MA151K	DIODE	1	<R>
D60505		MA170	DIODE	1	<R>
D60506		MA151K	DIODE	1	<R>
FA2202		VLF1036D101	FILTER	1	
FL2201-06		VLF0634	FILTER	6	
IC1501		LM393PS	IC	1	<R>
IC1502		AN7912F	IC	1	<R>
IC1503		AN7905F	IC	1	<R>
IC1505,06		TL431CLP	IC	2	<R>
IC2001		MN6742VMEG	IC	1	<R>
IC2002		MN1382-R	IC	1	
IC2003		BA226F	IC	1	<R>
IC2004		MC14052BF	IC	1	<R>
IC2006		TC4S30F	IC	1	<R>
IC2007,08		MN53015VZW	IC	2	<R>
IC2010		LM339NS	IC	1	<R>
IC2012		MC74HCU04F	IC	1	<R>
IC2013		LM358PS	IC	1	<R>
IC2014		TC7S32F	IC	1	<R>
IC2201		MN19041VMCX	IC	1	<R>
IC2202		L7A0269	IC	1	<R>
IC2203		PCM55HP	IC	1	<R>
IC2206		MC14050BF	IC	1	<R>
IC2207		LM358PS	IC	1	<R>
IC2302		NJM4556MB	IC	1	<R>
IC2303		LM358PS	IC	1	<R>
IC2304		LM393PS	IC	1	<R>
IC2305		MC14053BF	IC	1	<R>
IC2310		BA6302AF	IC	1	<R>
IC2401		MC14013BF	IC	1	<R>
IC2402		TC4W53F	IC	1	<R>
IC2406		M50927-531SP	IC	1	<R>
IC2501,02		LM324NS	IC	2	<R>
IC2503		LM393PS	IC	1	<R>
IC2505		MC14053BF	IC	1	<R>
IC2506		MC14052BF	IC	1	<R>
IC2507		MC14053BF	IC	1	<R>
IC2701		BA6149LS	IC	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC2703		AN3815K	IC	1	<R>
IC2704		XRA6435S	IC	1	<R>
IC2705		LM393PS	IC	1	<R>
IC2706		LM358PS	IC	1	<R>
IC2707		LM393PS	IC	1	<R>
IC2708		LM358PS	IC	1	<R>
IC2709		LM393PS	IC	1	<R>
IC2710,11		UPC4556G2	IC	2	<R>
IC2715		AN78N12	IC	1	<R>
IC60001		TD62503F	IC	1	<R>
IC60002		MN188166VCTG	IC	1	<R>
IC60003		MN1382-R	IC	1	
IC60101		LM324NS	IC	1	<R>
IC60501		LM393PS	IC	1	<R>
IC60502		M54649L	IC	1	<R>
IC60503		MN1382-R	IC	1	
J2002-04		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
J2007		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J2202		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J2204,05		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
J2207-12		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	6	
J60001		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J60003		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J60005,06		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
K1501		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
K1502		ERDS2T0	C.RESISTOR 1/4W 0	1	
L1501		VLQEL06F101K	COIL 100UH	1	
L1502,03		VLP0074	COIL	2	
L2001,02		VLQEL05S470J	COIL 47UH	2	
L2004-06		VLQEL05S470J	COIL 47UH	3	
L2007		VLP0054	COIL	1	
L2008		VLQEL05S470J	COIL 47UH	1	
L2201,02		VLQEL05S2R2K	COIL 2.2UH	2	
L2203-05		VLP0054	COIL	3	
L2206,07		VLQEL05S2R2K	COIL 2.2UH	2	
L2208		VLQEL05S470J	COIL 47UH	1	
L2301-03		VLQEL05S470J	COIL 47UH	3	
L2401		VLQEL05S470J	COIL 47UH	1	
L2502		VLQEL05S470J	COIL 47UH	1	
L2701		VLQ0128	COIL	1	
L2702-04		VLQ0129	COIL	3	
L2705		VLQEL05S470J	COIL 47UH	1	
L2707		VLQEL05S470J	COIL 47UH	1	
L2711		VLQEL05S470J	COIL 47UH	1	
L60002		VLQEL05S470J	COIL 47UH	1	
L60501		VLQEL05S150K	COIL 15UH	1	
P1501		VJP1146T	CONNECTOR (MALE)	1	
P1502		VJP3076	CONNECTOR (MALE)	1	
P1503		VJP1147	CONNECTOR (MALE)	1	
P2201-03		VJS3202B020Z	CONNECTOR (FEMALE)	3	
P2301		VJP1230T	CONNECTOR (MALE)	1	
P2701		VJP3078	CONNECTOR (MALE)	1	
P2702		VJP3083	CONNECTOR (MALE)	1	
P2703		VJS2149W	CONNECTOR (FEMALE)	1	
P60003		VJS3135	CONNECTOR (FEMALE)	1	
P60501		VJS2149W	CONNECTOR (FEMALE)	1	
P60502		VJP1230T	CONNECTOR (MALE)	1	
P60503		VJS3134	CONNECTOR (FEMALE)	1	
Q1501		2SD1474	TRANSISTOR	1	<R>
Q1502		2SD973A-R	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q1503		2SD1474	TRANSISTOR	1	<R>
Q1504		2SD1273	TRANSISTOR	1	<R>
Q1505		2SD973A	TRANSISTOR	1	<R>
Q2001		MSC2295-B	TRANSISTOR	1	<R>
Q2303-05		MSD601-R	TRANSISTOR	3	<R>
Q2703		MSB709-R	TRANSISTOR	1	<R>
Q2704		2SB1151	TRANSISTOR	1	<R>
Q2705-07		2SD601A-R	TRANSISTOR	3	<R>
Q2709-11		2SB772	TRANSISTOR	3	<R>
Q2713-16		MSB709-R	TRANSISTOR	4	<R>
Q60001		2SD638	TRANSISTOR	1	<R>
Q60002		MSB709-R	TRANSISTOR	1	<R>
Q60003		2SB819	TRANSISTOR	1	<R>
Q60004		MSD601-R	TRANSISTOR	1	<R>
Q60005		2SB819	TRANSISTOR	1	<R>
Q60006		MSD601-R	TRANSISTOR	1	<R>
Q60007		MSD602-R	TRANSISTOR	1	<R>
Q60501-03		MSD601-R	TRANSISTOR	3	<R>
Q60504		2SB819	TRANSISTOR	1	<R>
Q60505		MSD601-R	TRANSISTOR	1	<R>
Q60506		2SD1273-Q	TRANSISTOR	1	<R>
Q60507		MSD601-R	TRANSISTOR	1	<R>
Q60508		2SB941	TRANSISTOR	1	<R>
Q60509		MSD601-R	TRANSISTOR	1	<R>
QR1502		MRN2402	TRANSISTOR-RESISTOR	1	<R>
QR1503		MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR1541		UN2219	TRANSISTOR-RESISTOR	1	
QR2005		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR2304,05		MRN2402	TRANSISTOR-RESISTOR	2	<R>
QR2306		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR2308		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR2309		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR2402		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR2501-05		MRN1404	TRANSISTOR-RESISTOR	5	<R>
QR2701		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR2702		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR2703		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR2704		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR60001		MRN2402	TRANSISTOR-RESISTOR	1	<R>
QR60002		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR60004		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR60007		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR60013		MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR60501		MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR60502		UN211F	TRANSISTOR-RESISTOR	1	
QR60503		MRN1404	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R1501		ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R1502		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R1504		ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R1505		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R1506		VRE0034E473	M.RESISTOR CH 1/10W 47K	1	
R1507		VRE0034E222	M.RESISTOR CH 1/10W 2.2K	1	
R1509		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R1510		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R1511		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R1512-14		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R1515		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R1516-18		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R1519		ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R1520		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R1521		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R1522		ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R1525		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R1526,27		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	2	
R1528,29		ERDS2TJ181	C.RESISTOR 1/4W 180	2	
R1531		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R1532		VRE0034E562	M.RESISTOR CH 1/10W 5.6K	1	
R1533		VRE0034E392	M.RESISTOR CH 1/10W 3.9K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R1534		VRE0034E222	M.RESISTOR CH 1/10W 2.2K	1	
R1535		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R1536		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R1541,42		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2001		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R2002		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2004		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R2005-07		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	3	
R2008		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R2009,10		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R2013		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R2017,18		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2019		ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R2020		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2021		ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	
R2022		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R2027		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R2028		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R2029		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R2030		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R2031		ERJ6GEYG241	M.RESISTOR CH1/10W 240	1	
R2032		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R2033		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R2035,36		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	2	
R2047		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R2048		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R2049		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2054-56		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	3	
R2059,60		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	2	
R2062		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R2064		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2067,68		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R2201		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R2202		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R2203		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R2205,06		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R2207		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2208		ERJ6GEYG104	M.RESISTOR CH1/10W 100K	1	
R2211		ERJ6GEYG473	M.RESISTOR CH1/10W 47K	1	
R2212		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2213-18		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	6	
R2220-23		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	4	
R2240		ERJ6GEYG473	M.RESISTOR CH1/10W 47K	1	
R2241		ERJ6GEYG104	M.RESISTOR CH1/10W 100K	1	
R2242		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R2331		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R2333		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R2334		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2335		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R2336		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R2337		ERJ6GEYG242	M.RESISTOR CH1/10W 2.4K	1	
R2338		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R2339		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2340,41		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	2	
R2342		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R2343		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R2344		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R2345		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R2346		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R2347		ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R2352		ERJ6GEYJ752	M.RESISTOR CH1/10W 7.5K	1	
R2353,54		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2355		ERJ6GEYJ752	M.RESISTOR CH1/10W 7.5K	1	
R2356		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2357,58		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	2	
R2359		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2360,61		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R2362		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R2363		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R2364		ERJ6GEYG913	M.RESISTOR CH1/10W 91K	1	
R2370,71		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2379		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2401		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R2402,03		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R2406		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2407,08		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R2409		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2410		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R2411		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R2501		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R2502		ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R2503		ERJ6GEYJ274	M.RESISTOR CH1/10W 270K	1	
R2504		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R2505		ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R2506		ERJ6GEYJ154	M.RESISTOR CH1/10W 150K	1	
R2507-10		ERJ6GEYG104	M.RESISTOR CH1/10W 100K	4	
R2511-15		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	5	
R2516		ERJ6GEYG393	M.RESISTOR CH1/10W 39K	1	
R2517		ERJ6GEYG223	M.RESISTOR CH1/10W 22K	1	
R2518-20		ERJ6GEYG124	M.RESISTOR CH1/10W 120K	3	
R2521		ERJ6GEYG154	M.RESISTOR CH1/10W 150K	1	
R2522		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2523,24		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R2701		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R2709,10		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2711		ERJ6GEYJ154	M.RESISTOR CH1/10W 150K	1	
R2712		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2713		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R2714-17		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	4	
R2718		ERG2SJ561	M.RESISTOR 2W 560	1	
R2719		ERDS2TJ270	C.RESISTOR 1/4W 27	1	
R2725		ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R2727		ERDS2TJ150	C.RESISTOR 1/4W 15	1	
R2729		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R2730		ERDS2TJ182	C.RESISTOR 1/4W 1.8K	1	
R2731		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2732		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R2733		ERDS2TJ182	C.RESISTOR 1/4W 1.8K	1	
R2734		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R2735		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2736		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R2738,39		ERDS2TJ150	C.RESISTOR 1/4W 15	2	
R2740		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R2743		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R2747		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2748		ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R2751		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R2752-54		ERDS2TJ330	C.RESISTOR 1/4W 33	3	
R2755		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2756		ERJ6GEYJ330	M.RESISTOR CH1/10W 33	1	
R2757		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2758		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R2759		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R2760		ERJ6GEYJ184	M.RESISTOR CH1/10W 180K	1	
R2761,62		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2763,64		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R2765		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2766		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R2767		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R2768		ERJ6GEYJ184	M.RESISTOR CH1/10W 180K	1	
R2769,70		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2771,72		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R2773,74		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2775		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R2776		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R2777		ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R2778-82		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	5	
R2783		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R2784		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2785		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R2786,87		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2788		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R2789		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R2790		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R2791		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R2792		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2793		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R2794		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	1	
R2795		ERJ6GEYF333	M.RESISTOR CH1/10W 33K	1	
R2796		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2799,00		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R2803		ERG2SJ221	M.RESISTOR 2W 220	1	
R2821		ERDS2TJ682	C.RESISTOR 1/4W 6.8K	1	
R2828,29		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R2830		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R2831		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R2832		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R2833		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R2834		ERDS2TJ182	C.RESISTOR 1/4W 1.8K	1	
R2835		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R2836		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R2838,39		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2840		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R2841		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2842,43		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R2844		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R2845		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R2846-48		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	3	
R2849		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R2850		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R2862,63		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R60001		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60002		ERD2FCG220	C.RESISTOR 2W 22	1	
R60003		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60004		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R60005		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R60006		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60007		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R60008		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60009		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R60010		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R60011		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R60012		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R60013		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R60015		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60016		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R60017,18		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R60019		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R60020		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R60021-24		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	4	
R60026-29		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	4	
R60030		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R60031		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60032-35		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	4	
R60043,44		ERJ6GEYF472	M.RESISTOR CH1/10W 4.7K	2	
R60045		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60047		ERG1SJ330	M.RESISTOR 1W 33	1	
R60050		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R60101		ERJ6GEYG102	M.RESISTOR CH1/10W 1K	1	
R60102		ERJ6GEYG302	M.RESISTOR CH1/10W 3K	1	
R60103-05		ERJ6GEYG102	M.RESISTOR CH1/10W 1K	3	
R60106		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R60107		ERJ6GEYJ823	M.RESISTOR CH1/10W 82K	1	
R60108-11		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	4	
R60501		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R60502,03		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	2	
R60504		ERJ6GEYG181	M.RESISTOR CH1/10W 180	1	
R60505		ERJ6GEYJ122	M.RESISTOR CH1/10W 1.2K	1	
R60506		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R60507,08		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R60509		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R60510,11		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	2	
R60512		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R60513		ERJ6GEYJ121	M.RESISTOR CH1/10W 120	1	
R60514		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R60515		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R60516		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R60517,18		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	2	
R60519		ERJ6GEYG181	M.RESISTOR CH1/10W 180	1	
R60520,21		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	2	
R60522		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R60523		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R60524		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R60525		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R60526		ERJ6GEYJ683	M.RESISTOR CH1/10W 68K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R60527,28		ERG1SJ300	M.RESISTOR 1W 30	2	
R60529		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R60530		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
T1501		ETE13K86AY	TRANSFORMER	1	
VR2001		EVN32CA00B54	V.RESISTOR 50K	1	
VR2003		EVN32CA00B15	V.RESISTOR 100K	1	
W2001,02		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
W2301		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
X2001		VSX0296	CRYSTAL OSCILLATOR	1	<R>
X2002		VSX0066	CRYSTAL OSCILLATOR	1	<R>
X2201		VSX0197	CRYSTAL OSCILLATOR	1	<R>
X2401		VSX0086	CRYSTAL OSCILLATOR	1	<R>
X2701		VSX0136	CRYSTAL OSCILLATOR	1	<R>
X60001		VSX0230	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E43		VMX0985	SPACER	2	
E52		XYN3+F8	SCREW	2	
E80		VSC4042	HEAT SINK	2	
E82		VMC0493	HEAT SINK SPRING	1	
E84		VMC0075	HEAT SINK SPRING	1	
E83		VSC1215	HEAT SINK	1	
E42		VJF0816	CORD CLAMPER	1	
E81		VSC1689	IC HEAT SINK	1	
		VEP04424A	P.C.BOARD W/COMPONENT		
			XLR F		
			CAPACITORS		
C6710-13		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	4	
J6722-25		VJP3417	CONNECTOR (MALE)	4	
P6706		VJP1246T	CONNECTOR (MALE)	1	
P6707		VJP1247T	CONNECTOR (MALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP04425A	P.C.BOARD W/COMPONENT		AG-7700E ONLY
			XLR F		
J6726-29		VJS3417	CONNECTOR(FEMALE)	4	
P6708		VJP1246T	CONNECTOR(MALE)	1	
P6709		VJP1247T	CONNECTOR(MALE)	1	
		VEP06906A	P.C.BOARD W/COMPONENT		
			9P IN REMOTE		
P69005		VJP3076	CONNECTOR (MALE)	1	
P69006		VJS2074	CONNECTOR (FEMALE)	1	
			MISCELLANEOUS		
E85		VMP4229	9P IN CONNECTOR ANGLE	1	
E86		XSB3+6F	SCREW	1	
		XYE3+EF8FZ	SCREW	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP06908C	P.C.BOARD W/COMPONENT		AG-7700E
			REAR AMP		
			CAPACITORS		
C4001-04		ECEA1CSN100	E.CAPACITOR 16V 10U	4	
C4007-10		ECEA1CSN100	E.CAPACITOR 16V 10U	4	
C4014		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4015		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C4016		ECEA1CKS470	E.CAPACITOR 16V 47U	1	
C4017		ECEA1CKS101	E.CAPACITOR 16V 100U	1	
C4018		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4019		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C4020		ECEA1CSN100	E.CAPACITOR 16V 10U	1	
C4021		ECEA1EKA470	E.CAPACITOR 25V 47U	1	
C4022		ECEA1VKS470	E.CAPACITOR 35V 47U	1	
C4023		ECEA1CSN100	E.CAPACITOR 16V 10U	1	
C4024,25		ECEA1EKA470	E.CAPACITOR 25V 47U	2	
C4026		ECEA1CSN100	E.CAPACITOR 16V 10U	1	
C4027,28		ECEA1EKA470	E.CAPACITOR 25V 47U	2	
C4029		ECEA1CSN100	E.CAPACITOR 16V 10U	1	
C4030,31		ECEA1EKA470	E.CAPACITOR 25V 47U	2	
C4034		ECEA1CKS101	E.CAPACITOR 16V 100U	1	
C4035		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C4036-41		ECEA1CKA100	E.CAPACITOR 16V 10U	6	
C4042,43		ECEA1CKS100	E.CAPACITOR 16V 10U	2	
C4044		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4045		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C4046-49		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	4	
C6601,02		ECEA1AKA470	E.CAPACITOR 10V 47U	2	
C6605		ECEA1AKA101	E.CAPACITOR 10V 100U	1	
C6607		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C6611		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6612		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C6613		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6614		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C6615		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6616		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C6621,22		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6623		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C6624		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6628-32		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C6639		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6640		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C6641		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6642		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6643		ECEA1HKS4R7	E.CAPACITOR 50V 4.7U	1	
C6644		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6645		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6646		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6647		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C6648		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6649		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6650		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C6651		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C6652		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C6653,54		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C6655,56		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	2	
C6657		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6658		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C6662-64		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C6665		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6667-70		ECCF1H270JC	C.CAPACITOR 50V 27P	4	
CT6601		ECV1ZW20X60	TRIMMER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D4001		MA151WA	DIODE	1	<R>
D4002		MA151WK	DIODE	1	<R>
D4003		MA151WA	DIODE	1	<R>
D4004		MA151WK	DIODE	1	<R>
D4005		MA151WA	DIODE	1	<R>
D4006		MA151WK	DIODE	1	<R>
D4007		MA151WA	DIODE	1	<R>
D4008		MA151WK	DIODE	1	<R>
D4017		MA153A	DIODE	1	<R>
D6601,02		MA151K	DIODE	2	<R>
D6603		MA28W-AB	DIODE	1	<R>
IC4001-03		NJM4556MB	IC	3	<R>
IC4004		AN6558S	IC	1	<R>
IC4005-07		NJM4556MB	IC	3	<R>
IC4008		AN6558S	IC	1	<R>
IC4014-17		NJM4556MB	IC	4	<R>
IC6601		NJM2233BMA	IC	1	<R>
IC6605-07		MC14577CF	IC	3	<R>
IC6610		MN1280P	IC	1	<R>
IC6611		M50455-001SP	IC	1	<R>
L6601-07		VLQEL05K101J	COIL 100UH	7	
L6609,10		VLQEL05K470J	COIL 47UH	2	
L6611		VLQEL05K150J	COIL 15UH	1	
L6612		VLQEL05K101J	COIL 100UH	1	
P4006		VJP3490B13	CONNECTOR (MALE)	1	
P4007,08		VJP3092	CONNECTOR (MALE)	2	
P4009		VJP3490B13	CONNECTOR (MALE)	1	
P6601		VJS1490	CONNECTOR (FEMALE)	1	
P6602,03		VJP3490B13	CONNECTOR (MALE)	2	
P6604		VJS1468	CONNECTOR (FEMALE)	1	
P6605		VJS1490	CONNECTOR (FEMALE)	1	
P6606		VJP3076	CONNECTOR (MALE)	1	
P6607		VJP1243T	CONNECTOR (MALE)	1	
P6608		VJS1488	CONNECTOR (FEMALE)	1	
Q4001-08		MSD601-R	TRANSISTOR	8	<R>
Q4010		2SD601-R	TRANSISTOR	1	<R>
Q4011		2SB710-R	TRANSISTOR	1	<R>
Q4015-17		2SD1306	TRANSISTOR	3	<R>
Q4021-23		2SD1306	TRANSISTOR	3	<R>
Q4027-29		2SD1306	TRANSISTOR	3	<R>
Q4033-35		2SD1306	TRANSISTOR	3	<R>
Q4036		MSB710-R	TRANSISTOR	1	<R>
Q4037		2SB710-R	TRANSISTOR	1	<R>
Q4038		2SD602-R	TRANSISTOR	1	<R>
Q6602,03		MSD601-R	TRANSISTOR	2	<R>
Q6606		MSB709-R	TRANSISTOR	1	<R>
Q6609,10		XN4501	TRANSISTOR	2	<R>
Q6611		MSD601-R	TRANSISTOR	1	<R>
Q6612		XN4401	TRANSISTOR	1	<R>
Q6613		MSB709-R	TRANSISTOR	1	<R>
QR6603		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR6605		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR6606		MRN1404	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R4001		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R4002,03		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R4004,05		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4006,07		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R4008		VRE0034E332	M.RESISTOR CH 1/10W 3.3K	1	
R4009-14		VRE0034E472	M.RESISTOR CH 1/10W 4.7K	6	
R4015		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R4016		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R4017		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R4018,19		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	2	
R4020,21		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R4022		VRE0034E332	M.RESISTOR CH 1/10W 3.3K	1	
R4023-28		VRE0034E472	M.RESISTOR CH 1/10W 4.7K	6	
R4029		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R4030		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R4032-35		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	4	
R4036		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R4038-40		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R4041		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R4042,43		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R4044,45		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	2	
R4046,47		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R4048		VRE0034E332	M.RESISTOR CH 1/10W 3.3K	1	
R4049-54		VRE0034E472	M.RESISTOR CH 1/10W 4.7K	6	
R4055		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R4056,57		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R4058,59		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	2	
R4060,61		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	2	
R4062		VRE0034E332	M.RESISTOR CH 1/10W 3.3K	1	
R4063-68		VRE0034E472	M.RESISTOR CH 1/10W 4.7K	6	
R4069		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R4070		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R4072-76		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	5	
R4077		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R4079-82		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	4	
R4094,95		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R4096,97		ERJ6GEYG151	M.RESISTOR CH1/10W 150	2	
R4107		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4108		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R4109		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4110		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4111		ERJ6GEYG912	M.RESISTOR CH1/10W 9.1K	1	
R4112		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4113,14		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R4115		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4116		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4117		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R4118		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4119-23		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	5	
R4133		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R4134,35		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R4136		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4137		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4138		ERJ6GEYG912	M.RESISTOR CH1/10W 9.1K	1	
R4139,40		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R4141		ERJ6GEYJ822	M.RESISTOR CH1/10W .8.2K	1	
R4142		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4143		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R4144		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4145-49		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	5	
R4159		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R4160,61		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R4162		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4163		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4164,65		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R4166		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4167		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R4168		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R4169		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4170		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4171		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R4172		ERJ6GEYG912	M.RESISTOR CH1/10W 9.1K	1	
R4173-75		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R4185		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R4186,87		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R4188		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4189		ERJ6GEYG912	M.RESISTOR CH1/10W 9.1K	1	
R4190		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4191,92		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R4193		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4194		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4195		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R4196		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4197-01		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	5	
R4204		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R4205		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R4206,07		ERJ6GEYG151	M.RESISTOR CH1/10W 150	2	
R4208-11		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	4	
R6601		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R6602		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R6604		ERJ6GEYG750	M.RESISTOR CH1/10W 75	1	
R6604		ERJ6GEYJ750	M.RESISTOR CH1/10W 75	1	
R6608		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R6609		ERJ6GEYJ472	M.RESISTOR CH1/10W 4.7K	1	
R6610		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R6618		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R6619		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R6620		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R6621,22		VRE0034E102	M.RESISTOR CH 1/10W 1K	2	
R6623		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R6624		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R6628-31		VRE0034E471	M.RESISTOR CH 1/10W 470	4	
R6632,33		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R6639-46		VRE0034E471	M.RESISTOR CH 1/10W 470	8	
R6649		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R6650		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R6652		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R6653		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R6654,55		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	2	
R6656		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R6657		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R6658		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R6659		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R6660		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R6662		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R6663		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R6664		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R6665		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R6668		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R6669		ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R6670		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R6671		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R6672		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R6673		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
SW4004,05		VSS0208	SWITCH	2	<R>
VR4005-08		EVN32CA00B53	V.RESISTOR 5K	4	
X6601		VSX0316	CRYSTAL OSCILLATOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP06908D	P.C.BOARD W/COMPONENT		AG-7600E
			REAR AMP		
			CAPACITORS		
C4016		ECEA1CKS470	E.CAPACITOR 16V 47U	1	
C4017		ECEA1CKS101	E.CAPACITOR 16V 100U	1	
C4018		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4019		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C4020		ECEA1CSN100	E.CAPACITOR 16V 10U	1	
C4021		ECEA1EKA470	E.CAPACITOR 25V 47U	1	
C4022		ECEA1VKS470	E.CAPACITOR 35V 47U	1	
C4023		ECEA1CSN100	E.CAPACITOR 16V 10U	1	
C4024,25		ECEA1EKA470	E.CAPACITOR 25V 47U	2	
C4026		ECEA1CSN100	E.CAPACITOR 16V 10U	1	
C4027,28		ECEA1EKA470	E.CAPACITOR 25V 47U	2	
C4029		ECEA1CSN100	E.CAPACITOR 16V 10U	1	
C4030,31		ECEA1EKA470	E.CAPACITOR 25V 47U	2	
C4034		ECEA1CKS101	E.CAPACITOR 16V 100U	1	
C4035		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C4036-41		ECEA1CKA100	E.CAPACITOR 16V 10U	6	
C4042,43		ECEA1CKS100	E.CAPACITOR 16V 10U	2	
C6611		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6612		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C6613		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6614		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C6615		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6616		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C6621,22		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6623		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C6624		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6628-33		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	6	
C6635		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C6639		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6640		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C6641		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6642		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6643		ECEA1HKS4R7	E.CAPACITOR 50V 4.7U	1	
C6644		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6645		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6646		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6647		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C6648		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6649		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6650		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C6651		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C6652		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C6653,54		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C6655,56		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	2	
C6657		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6658		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C6662-64		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C6667,68		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	2	
C6670,71		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	2	
C6674		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
CT6601		ECV1ZW20X60	TRIMMER	1	
D4017		MA153A	DIODE	1	<R>
D6601		MA151K	DIODE	1	<R>
D6603		MA28W-AB	DIODE	1	<R>
IC4014-17		NJM4556MB	IC	4	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC6605-08		MC14577CP	IC	4	<R>
IC6610		MN1280P	IC	1	<R>
IC6611		M50455-001SP	IC	1	<R>
L6601-07		VLQEL05K101J	COIL 100UH	7	
L6609,10		VLQEL05K470J	COIL 47UH	2	
L6611		VLQEL05K150J	COIL 15UH	1	
L6612		VLQEL05K101J	COIL 100UH	1	
P4006		VJP3490B13	CONNECTOR (MALE)	1	
P4007		VJP3092	CONNECTOR (MALE)	1	
P4009		VJP3490B13	CONNECTOR (MALE)	1	
P6601		VJS1490	CONNECTOR (FEMALE)	1	
P6602,03		VJP3490B13	CONNECTOR (MALE)	2	
P6605		VJS1490	CONNECTOR (FEMALE)	1	
P6606		VJP3076	CONNECTOR (MALE)	1	
P6608		VJS1488	CONNECTOR (FEMALE)	1	
Q4010		2SD601-R	TRANSISTOR	1	<R>
Q4011		2SB710-R	TRANSISTOR	1	<R>
Q4015-17		2SD1306	TRANSISTOR	3	<R>
Q4021-23		2SD1306	TRANSISTOR	3	<R>
Q4027-29		2SD1306	TRANSISTOR	3	<R>
Q4033-35		2SD1306	TRANSISTOR	3	<R>
Q4036		MSB710-R	TRANSISTOR	1	<R>
Q6606		MSB709-R	TRANSISTOR	1	<R>
Q6609,10		XN4501	TRANSISTOR	2	<R>
Q6611		MSD601-R	TRANSISTOR	1	<R>
Q6612		XN4401	TRANSISTOR	1	<R>
QR6605		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR6606		MRN1404	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R4096,97		ERJ6GEYG151	M.RESISTOR CH1/10W 150	2	
R4107		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4108		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R4109		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4110		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4111		ERJ6GEYG912	M.RESISTOR CH1/10W 9.1K	1	
R4112		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4113,14		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R4115		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4116		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4117		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R4118		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4119-23		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	5	
R4133		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R4134,35		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R4136		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4137		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4138		ERJ6GEYG912	M.RESISTOR CH1/10W 9.1K	1	
R4139,40		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R4141		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4142		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4143		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R4144		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4145-49		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	5	
R4159		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R4160,61		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R4162		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4163		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4164,65		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R4166		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4167		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4168		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R4169		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4170		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4171		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R4172		ERJ6GEYG912	M.RESISTOR CH1/10W 9.1K	1	
R4173-75		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R4185		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R4186,87		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R4188		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4189		ERJ6GEYG912	M.RESISTOR CH1/10W 9.1K	1	
R4190		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4191,92		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	2	
R4193		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4194		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4195		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R4196		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R4197-01		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	5	
R4204		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R4205		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R6618		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R6619		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R6620		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R6621,22		VRE0034E102	M.RESISTOR CH 1/10W 1K	2	
R6623		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R6624		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R6628-31		VRE0034E471	M.RESISTOR CH 1/10W 470	4	
R6632,33		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R6639-46		VRE0034E471	M.RESISTOR CH 1/10W 470	8	
R6649		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R6650		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R6651		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R6652		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R6653		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R6654,55		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	2	
R6656		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R6657		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R6658		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R6659		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R6660		ERJ6GEYJ391	M.RESISTOR CH1/10W 390	1	
R6662		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R6663		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R6664		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R6665		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R6672		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R6673		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R6676		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R6677,78		VRE0034E471	M.RESISTOR CH 1/10W 470	2	
VR4005-08		EVN32CA00B53	V.RESISTOR 5K	4	
X6601		VSX0316	CRYSTAL OSCILLATOR	1	<R>
		VEP06909C	P.C.BOARD W/COMPONENT		AG-7700E
			REAR JACK		
J6701-04		VJS3154	CONNECTOR (FEMALE)	4	
J6705		VJS3155	CONNECTOR (FEMALE)	1	
J6711-13		VJS3154	CONNECTOR (FEMALE)	3	
J6714,15		VJS3155	CONNECTOR (FEMALE)	2	
J6720,21		VJS3154	CONNECTOR (FEMALE)	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P6701		VJS3215B012	CONNECTOR (FEMALE)	1	
P6702		VJS3215B008	CONNECTOR (FEMALE)	1	
P6703		VJS3215B012	CONNECTOR (FEMALE)	1	
P6704		VJS3215B010	CONNECTOR (FEMALE)	1	
			RESISTORS		
R6701,02		ER0S2CKG75R0	M.RESISTOR 1/4W 75.0	2	
R6704-06		ER0S2CKG75R0	M.RESISTOR 1/4W 75.0	3	
R6707		ER0S2CKG68R0	M.RESISTOR 1/4W 68.0	1	
R6708-11		ER0S2CKG75R0	M.RESISTOR 1/4W 75.0	4	
R6718,19		ERDS2TJ104	C.RESISTOR 1/4W 100K	2	
SW6701,02		VSS0303	SWITCH	2	<R>
SW6705,06		VSS0390	SWITCH	2	<R>
			MISCELLANEOUS		
E99		VMX2078	P.C.B. SPACER	3	
		VXQ0102	SCREW	2	
		VEP06909D	P.C.BOARD W/COMPONENT		AG-7600E
			REAR JACK		
J6703,04		VJS3154	CONNECTOR (FEMALE)	2	
J6711-13		VJS3154	CONNECTOR (FEMALE)	3	
J6714,15		VJS3155	CONNECTOR (FEMALE)	2	
J6721		VJS3154	CONNECTOR (FEMALE)	1	
P6701		VJS3215B012	CONNECTOR (FEMALE)	1	
P6703		VJS3215B012	CONNECTOR (FEMALE)	1	
P6704		VJS3215B010	CONNECTOR (FEMALE)	1	
			RESISTORS		
R6702		ER0S2CKG75R0	M.RESISTOR 1/4W 75.0	1	
R6705,06		ER0S2CKG75R0	M.RESISTOR 1/4W 75.0	2	
R6707		ER0S2CKG68R0	M.RESISTOR 1/4W 68.0	1	
R6708-11		ER0S2CKG75R0	M.RESISTOR 1/4W 75.0	4	
R6719		ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
SW6702		VSS0303	SWITCH	1	<R>
			MISCELLANEOUS		
E99		VMX2078	P.C.B. SPACER	3	
		VXQ0102	SCREW	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEK4265	P.C.BOARD W/COMPONENT		
			REV TENSION SENSOR UNIT		
			MISCELLANEOUS		
E156		VMA7987	REV PHOTO HOLDER	1	
E157		0N1108	PHOTO INTERRUPTER	1	<R>
E94		XTV26+4F	SCREW	1	
		VEK4058	P.C.BOARD W/COMPONENT		
			PHOTO TR (R) UNIT		
			MISCELLANEOUS		
E92		VMD0645	PHOTO TR HOLDER	1	
		VEK3578	P.C.BOARD W/COMPONENT		
			PHOTO TR (L) UNIT		
			MISCELLANEOUS		
E91		VMD0645	PHOTO TR HOLDER	1	
		VEK5556	P.C.BOARD W/COMPONENT		
			SEARCH DIAL UNIT		
			MISCELLANEOUS		
E87		VSQ0651	JOG/SHUTTLE UNIT	1	<R>
E88		XTV3+6F	SCREW	2	
E89		XTV3+8J	SCREW	3	
E90		XYE3+EF6	SCREW	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks

Panasonic

Printed in Japan
H3200502 NTN